BLACK BOX®
NETWORK SERVICES

DOUBLE DIAMOND
WARRANTY

KVM Switching

Get the ultimate in control, convenience, and cost savings!

+32.2.725.85.50 | www.blackbox.be

Dear Client,

We are pleased to present you the brand new KVM switching brochure!
Our team of engineers has worked very hard to produce a wide range of KVM solutions.

All prices have been reviewed carefully to offer **the best quality at a very competitive price!**

With an experience of over 35 years, Black Box is dedicated to be a **single source**, for all network challenges, from the presales, over the planning, the design and the installation, to the post-installation maintenance programs.

Yes, Black Box can also install and maintain your network!
Just turn the page and find our **full range of installation and maintenance services**, to help make sure your communications systems function at optimal performance. Count on us to add value to your operations!

For high-end network solutions I suggest to take an all-in maintenance contract with **one year of free maintenance**, to help protect your communications investments.

No need for a maintenance contract but still want to protect your Black Box brand products? Than I recommend our brand new, no-questions-asked **Double Diamond Warranty**, that protects your Black Box brand products against all accidental damage.

Also, watch out for our new solutions!

To learn more, visit the Black Box website at www.blackbox.be or call us at +32.2.725.85.50.

Enjoy!,

Igor Demesmaeker
Sales Manager Black Box Belgium

All prices in this brochure are subject to change without prior notice.
See our website www.blackbox.be

Count on us to add value to your operations!

Scan the QR code using the Barcode Scanner on your Smart Phone, and the link will be instantly accessible on your phone.

More than ju
Optimize your installat

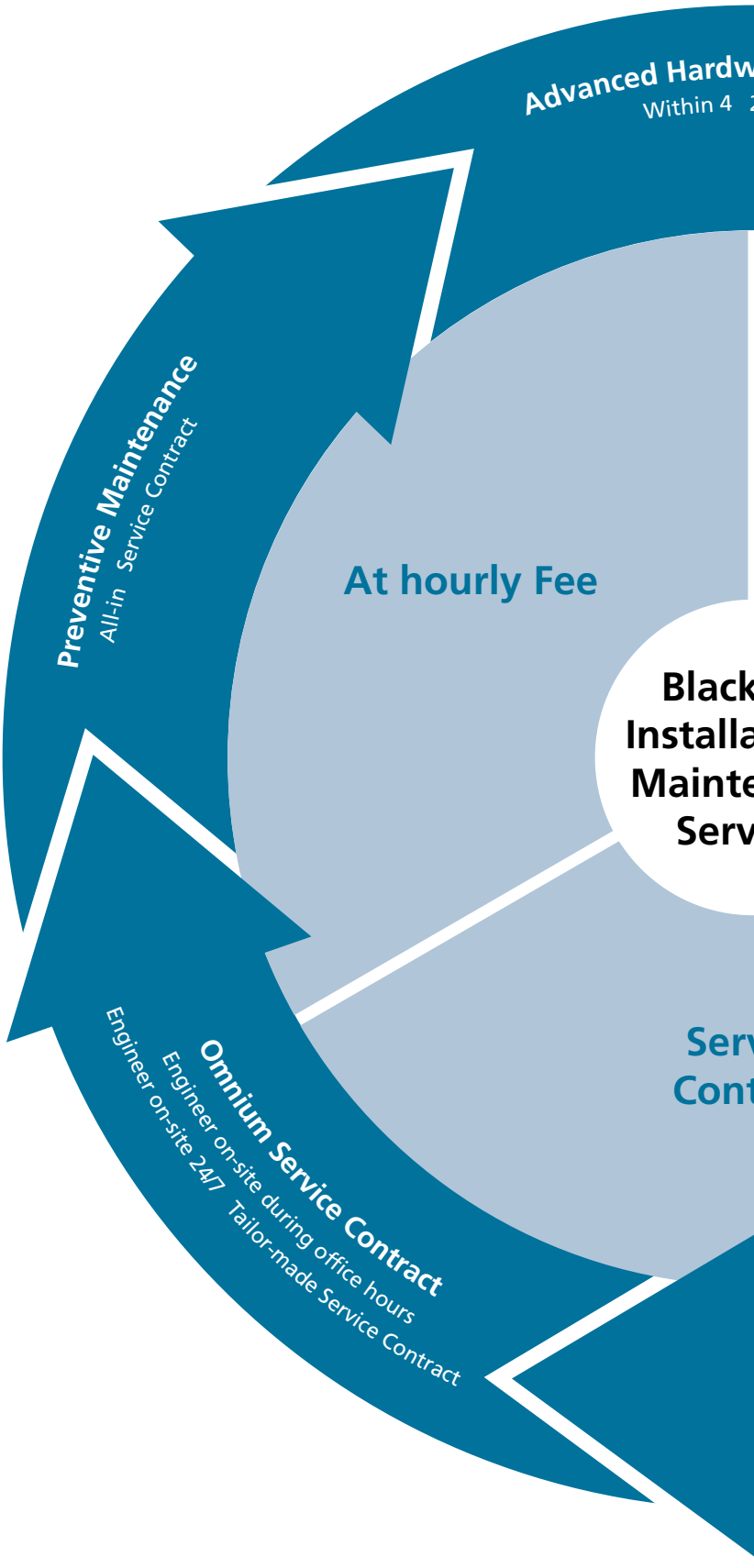
Procuring your products and services from multiple suppliers, demands complex project coordination from you and your team, and raises the risk of incompatibility between different network components.

Black Box offers an all-in-one package – from the design to the maintenance, and all in between – individually tailored to meet client's requirements.

Find out how Black Box can support you!

- ✓ Appeal to the **knowledge and expertise of experienced Black Box data cabling engineers** as well as seasoned network engineers.
- ✓ A **broad range of service plans** to meet the **needs of organizations** of all sizes and industries.
- ✓ **FREE Technical Support** by phone on +32.2.749.99.55.
- ✓ **Service Contract with defined Service Level Agreements** covering response times, performance and fault resolution.
- ✓ **Global coverage** with a local focus.
- ✓ Periodic **audits & training services.**
- ✓ Besides the standard maintenance service Black Box can take care of the **tactical & operational maintenance.** Management can be done **remotely as well as on-site.**

You can count on us to add value to your operations. Let Black Box provide the technical support you need to help protect your network investments.



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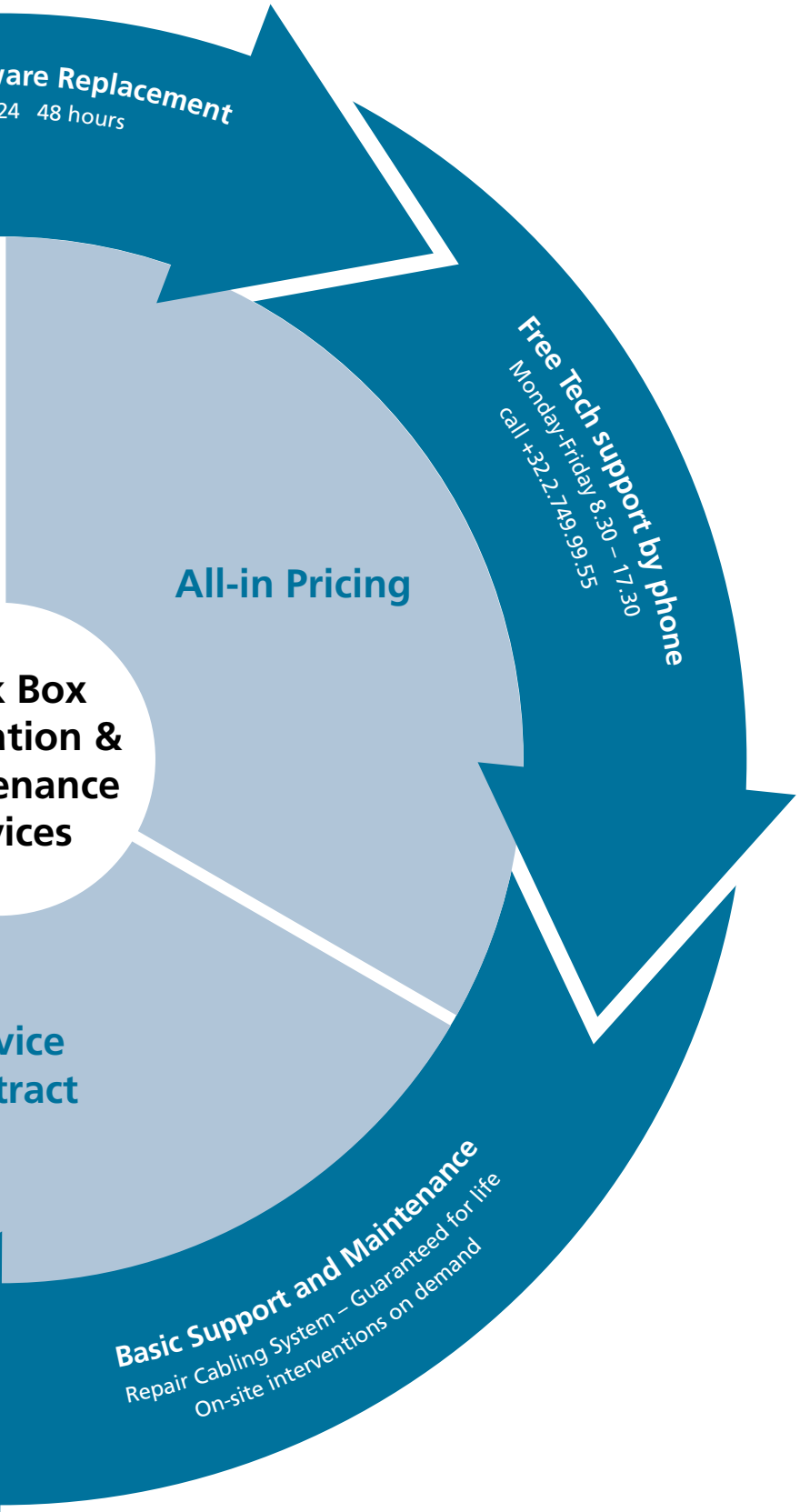

Take the risk out of equipment purchases with the

DOUBLE DIAMOND WARRANTY

The Double Diamond™ Warranty is our no-questions-asked warranty that protects your Black Box® brand products* from accidental damage, including drops, water, and power surges.

Worry-Free Purchases

Most of our products come with a one- or two-year warranty. Some products - such as copper cables, manual switches, cabinets, and racks - are even guaranteed for life!

Best Service

During the warranty period, Black Box will repair or replace your damaged equipment within the most reasonable time at NO CHARGE!

Extra Coverage

You can also extend your warranty on Black Box® brand products.*

For an additional year for only 10% of the list price! Or, extend your coverage for a **full three years for only 20% of the list price!**

Watch out for the Double Diamond Warranty sign!

DOUBLE DIAMOND WARRANTY

To give an idea of the Double Diamond Warranty prices :

Item	Code	Price
ServSwitch Wizard IP Plus	ACR2005A	**€ 1.230,00**

One year €123,00

Three years €246,00

* Certain products may not be eligible.

For high-end products

Take advantage of our expertise and get FREE maintenance

In need of a 3 years all-in maintenance contract on Black Box brand products?

Get an extra year for FREE!

DVI

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Single-User

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5 ..... ServSwitch DT Dual-Head DVI USB
5 ..... ServSwitch EC DVI USB
6 ..... ServSwitch Wizard DVI Dual-Link, USB
6 ..... ServSwitch Wizard DVI Dual-Link, with True USB Emulation

Multi-User

7 ..... ServSwitch 4-site
8-9 ..... ServSwitch DKM

Over IP

10 ..... ServSwitch Agility
11 ..... ServSwitch Wizard IP+

Why Black Box?

12 ..... Making networking easier than ever.
12 ..... Our values, Your benefit!

Display Port

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VGA

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Management Software

22 ..... DS View 4

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Buyer's Guide DVI | KVM Switching

# Users	# Servers	PS/2	USB HID	Audio	Transparant USB 2.0	VGA/DVI MIX	Max. Resolution	# Screens	Item	Page
1	2	✗	✗	✓	✓	✗	1920x1200	1	ServSwitch DT DVI	5
1	2-4	✗	✓	✓	✗	✗	1920x1200	1	ServSwitch DT DVI	5
1	2-4	✗	✓	✓	✓	✗	1920x1200	2	ServSwitch DT Dual-Head	5
1	8-16	✗	✓	✗	✗	✗	1920x1200	1	ServSwitch EC DVI USB	5
1	4-8	✗	✓	✓	✓	✗	2560x1600	1	ServSwitch Wizard DVI Dual-Link	6
1	4	✗	✓	✓	✓	✗	2560x1600	2-4	ServSwitch Wizard DVI Dual-Link Multihead	6
1	4	✓	✓	✗	✗	✓	1920x1200	4 in 1	ServSwitch 4site	7
8-16	8-32	✗	✓	✓	✓	✗	2048x1152	1-4	ServSwitch DKM	8-9

Buyer's Guide DVI | KVM over IP

# Users	# Servers	PS/2	USB HID	Audio	Transparant USB 2.0	VGA/DVI MIX	Max. Resolution	# Screens	Item	Page
∞	∞	✗	✓	✓	✓	✗	1920x1200	1	ServSwitch Agility DVI	10

Buyer's Guide DVI | Remote Access

# Users	# Servers	PS/2	USB HID	Audio	Transparant USB 2.0	VGA/DVI MIX	Max. Resolution	# Screens	Item	Page
1	1+	✓	✓	✓	✓	✗	1600x1200	1	ServSwitch Wizard IP+	11

ServSwitch DT DVI with USB
ServSwitch DT Dual-Head DVI USB

These two- or four-port KVM switches provide the ultimate in multimedia and USB switching.

- Switch PCs with single-link DVI-D video and either transparant USB 2.0 or emulated USB keyboard/mouse with the ServSwitch DT DVI
- Access, control, boot, and reboot multiple dual-head, USB-enabled multimedia computers using one USB keyboard, monitor, and mouse with the ServSwitch DT Dual-Head
- ✦✦ WARRANTY — 1 Year

TECH SPECS

Resolution (Maximum) — KV9604A, KV9612A: 1600 x 1200@ 60 Hz; KV9614, KV9622A, KV9624A; 1920 x 1200@ 60Hz; KV9622A, KV9626 (on dual screen): digital 2560 x 1600, analog 2048 x 1536
CE Approval — Yes
RoHS — Yes

Item	Code	Price
ServSwitch DT DVI, 4-Port with Transparent USB 2.0		
	KV9604A	€ 176,80
with Emultated USB Keyboard/Mouse		
2-Port	KV9612A	€ 124,20
4-Port	KV9614A	€ 199,90
ServSwitch DT Dual-Head DVI USB		
2-Port	KV9622A	€ 162,00
4-Port	KV9624A	€ 263,00
You may also need…		
ServSwitch DT/EC Series CPU Cables		
1.8-m	EHN900024U-0006	€ 19,00
3.0-m	EHN900024U-0010	€ 20,00
4.5-m	EHN900024U-0015	€ 22,00
DVI-D Male to DVI-D Male Cables		
1.8-m	EVNDVI02-0006	€ 26,00
3.0-m	EVNDVI02-0010	€ 32,00
4.5-m	EVNDVI01-0015	€ 37,00
Audio Cables		
1.5-m	EJ110-0005	€ 2,80
3.0-m	EJ110-0010	€ 3,50

ServSwitch EC DVI USB

ServSwitch convenience plus DVI quality.

- DVI SL/USB KVM switch with USB/DVI console.
- Supports resolutions up to 1920 x 1200.
- Switch manually or with Auto Scan.
- Save rack space—only 1U high.
- ✦✦ WARRANTY — 1 Year

Manage up to eight or sixteen DVI/USB servers from a single DVI/USB console with this simple plug-and-play KVM switch.

Switch between servers using front-panel buttons or hotkeys. Or you select the Autoscan function for automatic switching, the ServSwitch EC will scan and switch between servers, one by one, at an interval that you determine. When Autoscan detects any keyboard or mouse activity, it suspends the scanning until activity stops and then resumes with the next computer in sequence.

With video enhancement technology that ensures superb quality and resolutions up to 1920 x 1200, the ServSwitch EC is DDC2B compatible, so you can use it with the latest digital monitors. What's more, the switch is operating-system independent and transparent to all applications.

TECH SPECS

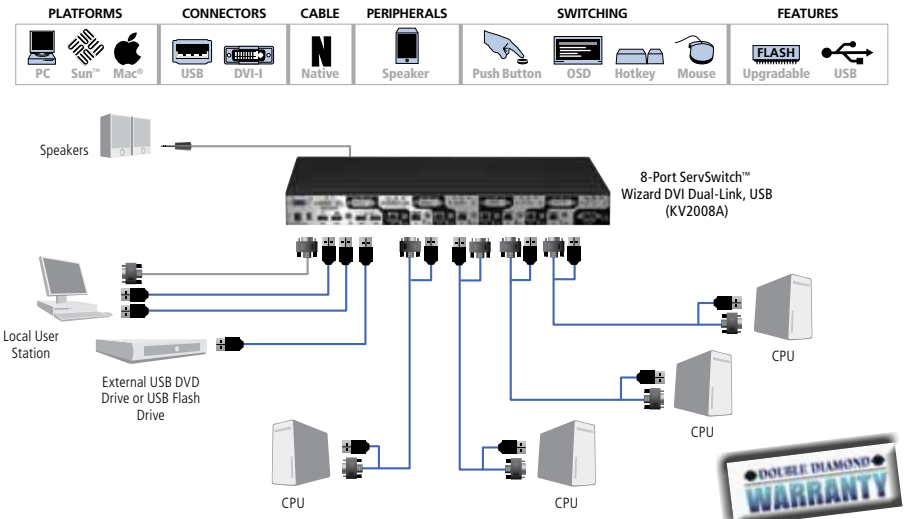
Resolution (Maximum) — 1920 x 1200
Supported Operating Systems — Windows® 98/Me/ Windows XP®, Windows NT®, Windows 2000, Windows Vista®, Windows 7, Mac OS®
User Controls — (8) port selection buttons
Connectors —
Server: (8) DVI-I (digital only), (8) USB Type B F;
Console: Keyboard/Mouse: (2) USB Type A F;
Monitor: (1) DVI-I F (digital only)
Indicators — LEDs: (2) per port, (1) power per unit
Power — External power supply: Input; 100 to 240 VAC, 50 to 60 Hz; Output: 9 VDC, 2A
Size — (1U) 4.4H x 43.8W x 18D cm
Weight —2.3 kg

Item	Code	Price
ServSwitch EC DVi USB		
8-port	KV9508A	€ 615,00
16-port	KV9516A	€ 1.125,00
You may also need…		
ServSwitch DT/EC Series CPU Cables		
1.8-m	EHN900024U-0006	€ 19,00
3.0-m	EHN900024U-0010	€ 20,00
4.5-m	EHN900024U-0015	€ 22,00

ServSwitch Wizard DVI Dual-Link, USB

Share high-end video and any four USB peripherals between eight workstations.

- Supports resolutions up to 2560 x 1600 at 60 Hz.
- True DDC EDID support.
- Up to eight PCs can be switched via hotkey, mouse, or RS-232/V.24.
- Supports dual-link DVI-D, single-link DVI-D, and VGA.
- Can be switched synchronously with other ServSwitch Wizard switches via the options port.
- Stereo audio switches independently from the video signal.
- Combined transparent USB 2.0 protocol with emulated keyboard and mouse control.
- ✦✦ WARRANTY — 2 Years



TECH SPECS

CE Approval — Yes
RoHS — Yes
Video — DVI dual-link: 2560 x 1600 @ 60 Hz
DVI single-link: 1920 x 1200 @ 60 Hz
VGA: 1920 x 1200 @ 60 Hz
Connectors — (1) barrel jack (Power); (9) DVI-I F; (1) VGA HD15 F; (8) USB Type B F; (8) 3.5-mm audio jacks; (4) USB Type A F; (1) DB9 M options port
Power — External: 100–240 VAC/5 VDC 6A
Size — 4.4 H x 48.3 W x 22 D cm
Weight — 2.5 kg

* *NOTE: Wizard DVI Dual-Link does not convert video formats.*
† *NOTE: This model does not support an OSD.*

Item	Code	Price
ServSwitch Wizard DVI Dual-Link, USB*		
4-Port	KV2004A†	€ 449,00
8-Port	KV2008A	€ 1.350,00
You may also need…		
ServSwitch CPU Cables		
1.8-m	EHN900024U-0006	€ 19,00
3.0-m	EHN900024U-0010	€ 20,00
4.5-m	EHN900024U-0015	€ 22,00
3.5-mm Stereo Audio Cables		
1.5-m	EJ110-0005	€ 2,80
3.0-m	EJ110-0010	€ 3,50

ServSwitch Wizard DVI Dual-Link with True USB Emulation

High-end DVI KVM switching for multiple dual-head computers and USB devices.

KV2204A (front)

- A flexible, professional-grade KVM switch for high-performance, multihead KVM switching.
- Enables a single user to control four computers fitted with dual-head, tri-head, or quad-head video and share USB peripherals between them.
- Supports access to two, three, or four video heads on each channel. Switch DVI video, keyboard, and mouse streams to multiple CPUs.
- ✦✦ WARRANTY — 2 Years

KV2404A (rear)

This highly flexible KVM switch centralizes and simplifies high-end, multihead video switching access at a single user console with multiple DVI screens.

Plus, with advanced support for multiple high-speed USB devices, the ServSwitch Wizard DVI Dual-Link with True USB Emulation serves today's busy multitaskers quite well.

It's ideal for IT administrators and medical imaging, graphic design, and broadcast studio professionals who not only require quick, reliable access to multiple computer CPUs and multiple video channels, but also need simultaneous access to a mix of USB peripherals.

Each video head channel on this high-quality switch supports dual-link digital DVI video at up to 450 megapixels per second. Plus, it supports high resolutions, whether you need 2048 x 1080 video for post-production type work or 2560 x 1600 (WQXGA) image clarity for very detailed medical or R&D lab imaging. Want to use VGA video instead of DVI? Simply add DVI-to-VGA adapters.

What's included

- ServSwitch Wizard DVI Dual-Link with True USB Emulation KVM switch unit
- AC power adapter
- CD-ROM with user manual
- (4) self-adhesive rubber feet

Item	Code	Price
ServSwitch Wizard DVI Dual-Link Switches with True USB Emulation		
Dual-Head	KV2204A	€ 840,00
Tri-Head	KV2304A	€ 1.190,00
Quad-Head	KV2404A	€ 1.490,00
For your CPU keyboard mouse and primary video connections, order…		
ServSwitch DT Series CPU Cables		
1.8-m	EHN900024U-0006	€ 19,00
3.0-m	EHN900024U-0010	€ 20,00
4.5-m	EHN900024U-0015	€ 22,00
…then for secondary video, order…		
DVI-D Male to DVI-D Male Cables		
1.8-m	EVNDVI02-0006	€ 26,00
3.0-m	EVNDVI02-0010	€ 32,00
4.5-m	EVNDVI01-0015	€ 37,00
For audio, order…		
Audio Cables		
1.5-m	EJ110-0005	€ 2,80
3.0-m	EJ110-0010	€ 3,50

PLATFORMS: PC, Sun™, Mac® | CONNECTORS: PS2, USB, DVI-I | CABLE: Native | PERIPHERALS: Touch Screen | SWITCHING: OSD, Push Button, Hotkey, Mouse, Serial | FEATURES: FLASH Upgradable, Cascadable

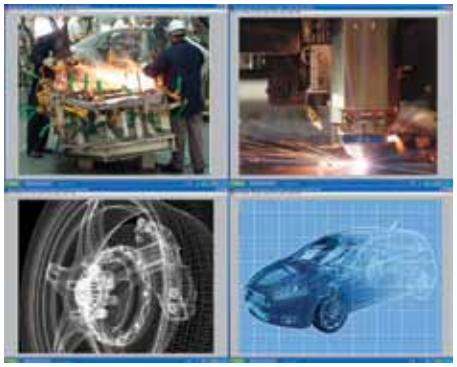
ServSwitch 4site

Display video from four servers on one screen

IDEAL FOR CONTROL ROOMS - SERVER FARMS - SECURITY SYSTEMS

KVP4000A: top: front view; bottom: rear view

- Select between four modes of operations: Full-Screen Mode, Quad-Mode, Dual-Mode and Picture-in-Picture (PiP) Mode,
- Video signals can be analog VGA (1600 x 1200) or digital DVI (1900 x 1200), plus the 4site supports touch screens.
- Get full KVM switching capability for up to four USB or PS/2 servers.
- Supports USB and PS/2 keyboards and mice for multiplatform use.
- Works with KVM-over-IP access points.
- Less than 1U high. Rackmount kit is included.
- ✦✦ **WARRANTY** — 2 Years



In Quad Mode, you can view the output from four different video sources.

In Picture-in-Picture Mode, you can view the full screen display on one video source along with smaller images from the three other video sources.

One for all.

The ServSwitch™ 4site gives you true KVM switching for controlling four servers from one keyboard and mouse. Plus, it enables you to display the video from those four servers on one monitor — all at the same time, and in real time!

This ServSwitch is a real bonus if you work in a control room or need to keep track of multiple screens. You can view them all on the one monitor at your workstation instead of setting up a bank of monitors.

Advanced video processing.

Unlike other video KVM switches, the 4site features an advanced video processing engine that enables a number of unique viewing opportunities. Take two to 16 video feeds, and display them on a large format monitor. Tie multiple KVM switching systems together to be monitored in your network operations center. Mix DVI and VGA inputs and get a high quality, properly scaled output. You won't find these features anywhere else.

Clearly compatible.

The ServSwitch 4site gives you the flexibility to use all types of monitors and video equipment. It supports all combinations of analog VGA and digital DVI video cards, monitors, even cameras.

The switch automatically determines the resolution of the monitor and each of the four servers. For clear, sharp video, digital resolutions up to 1920 x 1200 at 60 Hz are supported, and VGA analog resolutions of 1600 x 1200 are supported.

Easy switching.

You can switch between the four operation modes and switch control to your target machines by using the front-panel buttons, keyboard commands, mouse functions, or touch screens.

Visualize everything.

You can also use the ServSwitch 4site to tie up to four KVM switching systems together. Centralize management for the ultimate KVM switching experience!

You can even control it remotely over the Internet using a KVM-over-IP access point, such as the ServSwitch Wizard™ IP Plus (**page 11**). Connect all devices to the ServSwitch from any location using Web client via a LAN or the Internet.

TECH SPECS

Controls — (4) port-switching front buttons; (1) Quad-Mode button; (1) PiP-Mode button
Distance (Maximum) — 5 m to console; 5 m to CPU
Resolution (Maximum) — VGA: 1600 x 1200; DVI: 1920 x 1200
CE Approval — Yes
RoHS — Yes
Connectors — CPU: (4) DVI-I F, (4) 6-pin mini DIN F, (4) USB Type B F;
Console: (1) DVI-I F, (2) USB Type A F;
Management port: (1) RJ-45 (serial RS-232);
Power: (1) IEC 320
Indicators — (6) LEDs; (4) Select/Powered status, (1) Quad Mode, (1) PiP Mode
Power — 100–240 VAC, 50–60 Hz, 40 W maximum
Size — 4.3 H x 43.4 W x 23.4 D cm
Weight — 2.9 kg

Item	Code	Price
ServSwitch 4site	KVP4000E-R2	**call**

ServSwitch DKM DVI-D KVM Matrix Switch

One switch that does it all — four modes of switching, plus extension over CATx or fiber.

- Virtually instantaneous switching ensures seamless signal delivery.
- Four switching modes—matrix, single-head, dual-head, and quad-head.
- Supports high-resolution DVI-D and USB-style keyboard/mouse, plus USB peripheral and audio options.
- Maximum resolution of 1920 x 1200 at 60 Hz.
- Extend KVM signals up to 140 m over CATx, up to 400 meters over multimode fiber, or up to 10 kilometers over single-mode fiber.
- Available in 19" housings for high-density applications.
- Configurations include 8 users to 8, 16, or 32 CPUs; and 16 users to 16 or 32 CPUs.
- ✦✦ WARRANTY — 2 Years

Virtually instantaneous switching and the transmission of high-quality DVI-D signals are what make the Black Box® ServSwitch™ DKM switching system a milestone in innovative KVM switching.

Certain modes of the single-head KVM switching support a transparent serial interface at up to 19 kbps and a hardware handshaking. Use it to control a single device requiring a full hardware handshaking or up to three devices without handshaking. In dual-head mode, devices support TxD and RxD only, with no hardware handshaking.

The ServSwitch DKM features hotkey controls and an on-screen display (OSD). Use the OSD to name connected devices and configure the system. A front-panel display with remote control is also available. Switching can be done remotely via the RS-232 serial interface or the TCP/IP interface.

For ultimate plug-and-play support, ServSwitch DKM has DDC read capability to receive true EDID information from the attached displays. The digital ServSwitch DKM does not need skew compensation like analog KVM switches do; the maximum video resolution is supported over the full distance.

Setup and Operation Modes

You can configure the ServSwitch DKM DVI-D KVM Switch in several ways. Connect the switch to CATx or fiber cabling, which then connects to the CPU/server with a local transmitter and, on the other side, connects to a receiver at the USB keyboard/mouse/monitors (user stations).

Matrix (crosspoint) switching

The DKM switch can be configured as 32 input to 16 output ports; or in reverse mode as 16 inputs to 32 outputs. Transmitters are installed at each of the CPUs, and DVI-D, serial, and audio signals go up to 10 kilometers depending on the cabling used. Control the switch with the serial (RS-232) port or via the built-in Web interface. The matrix switch mode is especially ideal for post production and digital signage applications.

KVM switch

The DKM switch operates as a KVM switch in three configurations: 16 users to 32 CPUs (single-head); 8 users to 16 CPUs (dual-head); and 4 users to 8 CPUs (quad-head). When used as a KVM switch, the DKM is cascadable: single-head, up to 1024 ports from one monitor; dual-head, up to 256 ports from two monitors; quad-head, up to 64 ports from four monitors.

Share Mode

Share Mode enables more than one user to have access to the same CPU at the same time. This is ideal in classrooms or conference rooms where an instructor or presenter wants to use a laptop and a projector. It also gives an IT administrator access to a user's monitor for troubleshooting or applying updates.

Additionally, the KVM switch enables port locking, meaning you can partner ports and ensure they switch in tandem. This way, when you switch CPUs, monitors being used in Share Mode follow automatically.

Control Room Mode

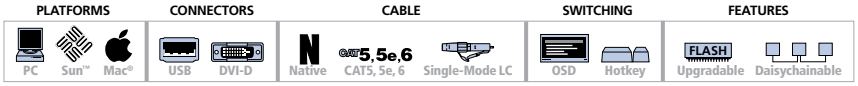
You can connect the KVM switch to servers and monitors. The OSD enables the user to switch monitors between CPUs, and the hotkeys enable the user to switch between one keyboard/mouse for all the monitors. You can select from the list of available CPUs, and the users don't need to know the CPU's IP address to use the keyboard/mouse. Users can use Share Mode in this configuration also, giving access to more than one user at the same time.

Student/Teacher System

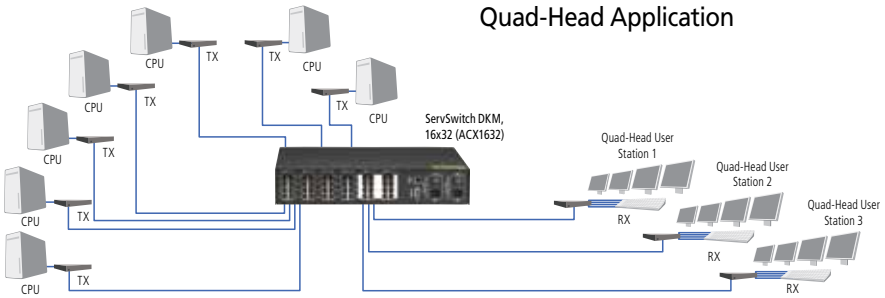
One of the modes that truly sets DKM above the rest, the Student/Teacher system has two configurations:

Up to 15 students: By connecting the student workstations with twisted-pair CATx cable, the teacher can monitor each student's work at his/her station. Additionally, the teacher can display to any of the student monitors, or share any of the workstation monitors with each CPU.

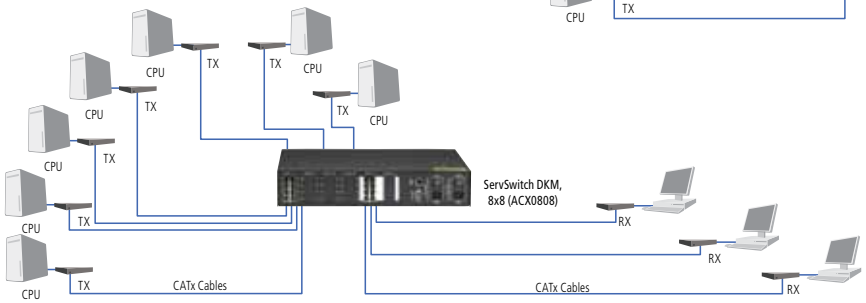
Up to 31 students: The student workstations are connected by single-strand CATx cable, enabling each CPU to be displayed at one monitor (including a large display monitor). In this configuration, too, the teacher can monitor each student at his/her station.



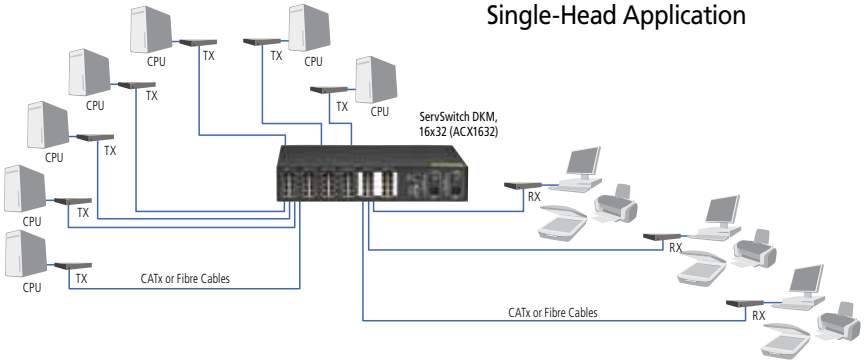
Quad-Head Application



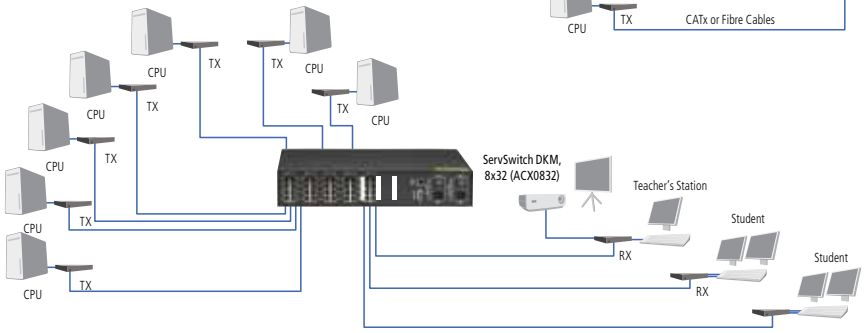
Matrix Configuration



Single-Head Application



Student/Teacher System



TECH SPECS

CE Approval — Yes
RoHS — Yes
Connectors — ACX0808: Console: (8) RJ-45;
Computer: (8) RJ-45;
ACX0816: (8) RJ-45;
Computer: (16) RJ-45;
ACX0832: (8) RJ-45;
Computer: (32) RJ-45;
ACX1616: (16) RJ-45;
Computer: (16) RJ-45;
ACX1632: (16) RJ-45;
Computer: (32) RJ-45;
All: Network: (1) RJ-45 10/100;
Configuring: (1) DB9 F;
Power: (2) IEC320 M, C14, dual power inputs
Power — 100 to 240 VAC, 47 to 66 Hz
Size — 8.4 H x 44.7 W x 44.2 D cm
Weight — ACX0808: 5.9 kg;
ACX0816: 5 kg;
ACX0832: 6.1 kg;
ACX1616: 6 kg;
ACX1632: 6.2 kg

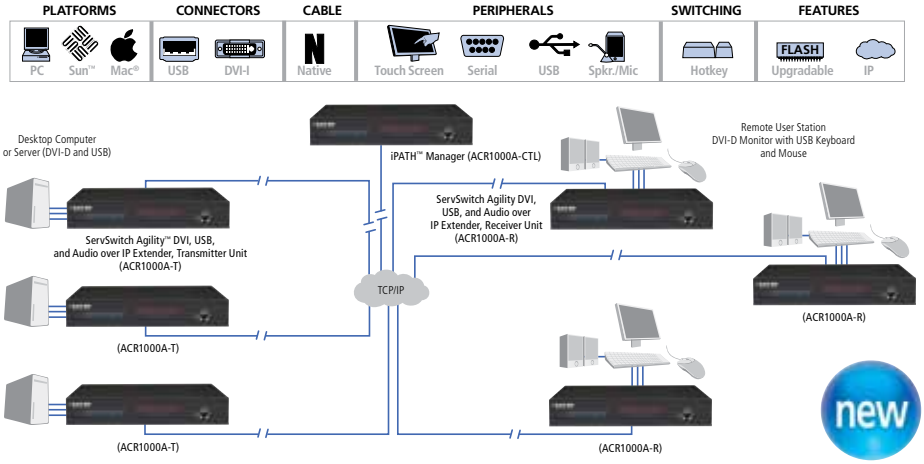
Item	Code	Price
ServSwitch DKM DVI-D KVM Switches		
8 Users to 8 CPUs	ACX0808	**Call**
8 Users to 16 CPUs	ACX0816	**Call**
8 Users to 32 CPUs	ACX0832	**Call**
16 Users to 16 CPUs	ACX1616	**Call**
16 Users to 32 CPUs	ACX1632	**Call**
✦ Include (1) ServSwitch DKM with (1) internal power supply, (2) 6-ft. U.S. power cords, (1) 32-button IR remote control, (1) 6-ft. DB9 M/F serial cable, (2) rackmount ears with (10) mounting screws, and (1) CD-ROM with user's manual.		
You may also need....		
ServSwitch Single DVI CATx KVM Extender		
Transmitter	ACS4001A-R2-T	**Call**
Receiver	ACS4001A-R2-R	**Call**
ServSwitch DKM DVI-D KVM Switch		
Redundant Power Supply	ACXPSR	**Call**

ServSwitch Agility DVI, USB, and Audio Extenders over IP

Go farther, do more, with digital KVM extension over IP.

IDEAL FOR DIGITAL SIGNAGE APPLICATIONS

- New flexible topology for KVM extension.
- Delivers perfect digital video with no loss.
- No-loss compression minimizes bandwidth use while maximizing the user experience.
- Configure your network to suit your needs: point-to-point extension, KVM switching, single-target sharing, or multicasting.
- Features keyboard/mouse emulation, and emulation for other standard Human Interface Devices (HIDs).
- Distance is only limited by your network capabilities when you use network switches.
- ✦✦WARRANTY — 2 Years



ServSwitch Agility™ DVI, USB, and Audio over IP Extenders enable you to do more and go farther with perfect digital video over nearly unlimited distances. Standard CATx cabling delivers IP traffic up to 100 m. For longer distances, add a network switch for an additional 100 m as many times as you want.

The flexible topology of the Agility gives you extension option applications that are brand new for KVM extenders. The Agility can be a KVM switch, a sharing portal, a DVI extender, and much, much more — it's up to you and how you decide to configure it.

Point-to-point

In the most straightforward configuration, use the Agililty as a point-to-point KVM extender. Use CAT6 cable to connect a transmitter and a receiver to deliver perfect DVI, audio, and USB.

Switching network

Turn your network into a KVM switch with the Agility. When you change channels on the receiver unit, you switch DVI, audio, and USB while the transmitters not in use continue to emulate the previously attached devices.
Create a KVM switch with as many users as you want — just keep adding receivers.

Single-target sharing

In this configuration, multiple users can share a single remote computer. Users can connect in three ways. View-only shows only the video feed. In Share Mode, an open connection is available for all users to use the connected devices at the same time. In Exclusive Mode, one user locks out the other users, preventing them from viewing or sharing the connection, with the exception of network administrators.

Multicasting

This unique feature enables the Agility to multicast video and audio over an IP network to several receiving units. To prevent saturating the network, when, for example, a receiver isn't set up to explicitly receive a multicast, an installed network switch should feature Internet Group Management Protocol (IGMP) snooping. This prevents an IP switch from passing on multicast data onto every port, even if it's not part of the Agility system. IGMP snooping reduces the amount of traffic generated by Agility transmitter units that are configured for multicast operations, and prevent performance degradation and wasted network bandwidth.

With the Agility and a network switch that includes IGMP snooping, multicast content to as many receivers as you want with no distance limits (depending on the network). This is an ideal configuration for digital signage applications.

Management system: iPATH

The ServSwitch Agility Controller Unit offers a management suite enabling you to remotely and securely configure all the transmitter and receiver units. Define new content channels, restrict and enable access privileges, push control, disable specific USB device classes, and so on.

TECH SPECS

Hardware Compatibility — All computers with DVI (digital only), USB, audio Network switches: Support for IGMP
CE Approval — Yes
RoHS — Yes
Size — Per unit: 4.4 H x 20.1 W x 12.2 D cm
Weight — Per unit: 0.75 kg

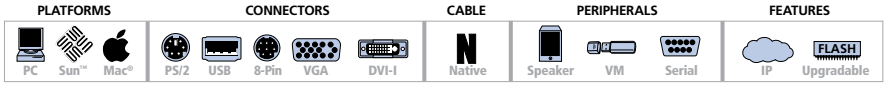
Possible applications:

- Distribute high-quality medical images to doctors and staff across large medical facilities. Agility uses standard Ethernet equipment, so the networking hardware won't need to be updated.
- In command and control room setups, multicast video and data to receiver units between LCD display walls. Users can interact with any of the computers using separate keyboard, mice, and DVI displays.
- Media post-production suites become collaborative with the Agility. Machine rooms store the media assets and hardware, and can distribute them throughout a post-production facility. Editors, producers, and directors can instantly communicate with animators and colorists.
- Get real flexibility for your digital signage network. All you need is an IP network running through the installation, and you can easily deliver content from one playout device via DVI. The number of screens is up to you.
- Deliver rich media experiences in public spaces, such as museums or libraries. The flexibility of the system makes reconfiguring your implementation a snap.

Item	Code	Price
ServSwitch Agility DVI, USB, and Audio Extenders over IP		
Kit	ACR1000A	call
✦ Includes (1) ServSwitch Agility Transmitter, (1) ServSwitch Agility Receiver, (2) power adapters (one for each of the components), (2) 1.8-m power cords, (1) 1.75-m combined DVI-D and USB cable, (2) 3-m 3.5-mm audio cables, (1) 2-m serial null-modem cable F/F (upgrade cable), (8) self-adhesive rubber feet, CD-ROMs with user manuals, and quick-start guides.		
Transmitter	ACR1000A-T	call
✦ Includes (1) ServSwitch Agility Transmitter, (1) power adapter, (1) 1.8-m power cord, (1) 1.75-m combined DVI-D and USB cable, (2) 3-m 3.5-mm audio cables, (1) serial null-modem cable F/F (upgrade cable), (4) self-adhesive rubber feet, CD-ROM with user manual, and a Quick-Start guide.		
Receiver	ACR1000A-R	call
✦ Includes (1) ServSwitch Agility Receiver, (1) power adapter, (1) 1.8-m power cord, (4) self-adhesive rubber feet, CD-ROM with user manual, and a Quick-Start guide.		
You also need…		
ServSwitch Agility Controller Unit	ACR1000A-CTL	call
You may also need…		
Rackmount Kit	RMK2004	call

ServSwitch Wizard IP Plus

Add IP connectivity to your existing KVM switch or a single computer.



ACR2005A: top: front view; bottom: rear view

- Access an attached ServSwitch™ and all servers connected to it via an IP network or dialup connection.
- Includes USB, DVI-I, and audio connectors for data and sound.
- No software needed.
- Remotely reboot after a power crash.
- True DDC support.
- Easy on-screen display for fast setup.
- ✦✦ WARRANTY — 2 Years

The ServSwitch Wizard™ IP Plus from Black Box enables you to remotely access an attached ServSwitch and all servers connected to it from anywhere in the world via an IP network or a dialup connection. No special software is needed on the controlled servers. Unlike software-only remote access solutions, the ServSwitch Wizard IP Plus provides full control — even during bootup.

Up to four simultaneous remote users can view the ServSwitch Wizard IP Plus, although only one user has complete control. You can connect all users via its RJ-45 network port or link one of four remote users via its modem/ISDN DB9 port. You can also use the DB9 port as a backup access route should the network fail.

The ServSwitch Wizard Plus contain an embedded VNC server, which you can access securely using a VNC viewer or a browser running Java. No extra software seat licenses are needed. Private or shared access modes are supported from up to four viewers.

A fast (533-MHz) processor and better video performance make the ServSwitch Wizard Plus ideal for high-end server rooms. The Virtual Media feature enables you to remotely make files available to any host computer linked to the Plus.

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch Wizard IP +	ACR2005A	€ 1.230,00
✦ Includes (1) ServSwitch Wizard IP Plus, (1) power supply, (1) CD-ROM, and (4) rubber feet.		

To rackmount your ServSwitch Wizard IP Plus, order…

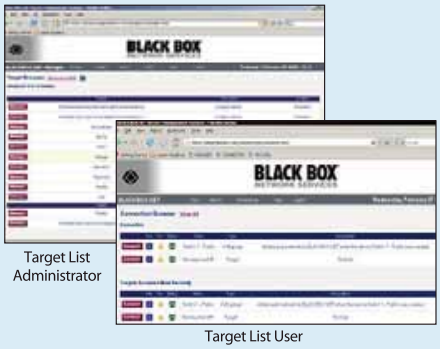
ServSwitch Wizard IP Rackmount Kits		
Single Unit	RMK2004	€ 54,80
Dual Units	RMK2004-2	€ 60,90

ServSwitch Wizard IP Management Software

The enterprise management software for central management and authentication

- Has central authentication to ensure system access security.
- Integrates the ServSwitch Wizard IP (page 20), ServSwitch Wizard IP Plus, ServSwitch™ CX IP (page 20) and ServSwitch Wizard IP DXS. (page 21)
- Provides a central log of system events and activity.
- Runs on Linux® and Windows® operating systems.

The ServSwitch Wizard IP Management Software connects the whole Wizard IP product family by providing central management functionality and security-based access to clusters of servers. You can now manage multiple sites or multiple servers more efficiently and economically than ever before — all while using high-performance ServSwitch Wizard IP products. Administration and access is done via Web browser.



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Target List User

Everything you need to build, manage, optimize, and secure your network.

You'll get IT all right here:
12,000 products; the best prices; Free Tech Support;
and many years of proven performance.

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Making networking easier than ever!

Our goal is to make Black Box the easiest and best place for you to do all your business. You'll find everything you need to take your network from the data center to the desktop. Plus your satisfaction is 100% guaranteed. You won't find a better value anywhere.

Custom Solutions

- If you can't find what you are looking for in our 12,000 off-the-shelf products, don't despair: Chances are we can build it!

Free Tech Support

- Questions? Need help finding the right product or want more in-depth advice? Talk to an expert at **32.2.749.99.55**.

New Demo Room

- Our new Demo Rooms in Zaventem is packed with the highest quality equipment from Black Box and with material from Black Box partners such as RAD, Extreme Networks,…
- To schedule a Free Products Live Demo contact us at **32.2.749.99.55**

Our values, Your benefit!

Invest in people – the people are our greatest assets. We are committed to invest in training and developing our people to turn knowledge in value for the benefit of our clients.

Positive team – we combine appropriate individual talents with a positive team spirit to achieve great results.

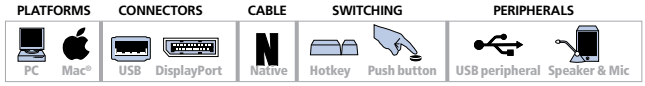
Best Customer Support – going the extra-mile to ensure our clients the best possible service is self-evident to us.

Do a few things well - *"A synchronized organization is like a champion rowing team-people working together with a certain rhythm that allows the group to do things the individual could not do. Synchronization expands the capacity of the whole group."*- Ram Charan

Open and honest communication – treating employees like individuals who are part of the bigger picture will lead to commitment, dedication and hard work.

ServSwitch DT DisplayPort with USB and Audio

Combine DisplayPort KVM Switching with audio and USB peripheral sharing in one unit



- High Resolution up to full HD (1920 x 1080) and WUXA (1920 x 1200).
- DDC2B support
- USB or audio devices operate independently.
- Supports USB consoles.
- Share up to four different USB peripherals.
- No software required.
- ✦✦ **WARRANTY** — 1 Year

This newest enlargement of the Black Box ServSwitch DT series supports DisplayPort connections, a new video standard with high resolution video up to UXGA (1600 x 1200), full HD (1920 x 1080), and WUXA (1920 x 1200). The ServSwitch DT Display Port combines Display Port, USB keyboard/mouse switching and USB peripheral sharing in one device. You can easily operate up to four PCs, G3/G4 Macintosh® computers, or Mac® Pros from a single USB keyboard, USB mouse, and monitor, saving you space, time, equipment, and money.

Its peripheral sharing function enables you to share more USB peripherals among all computers. The units also support bidirectional audio. Users can switch among up to two or four KVM sources and control the systems using a USB keyboard and mouse, USB peripherals, and bidirectional audio, and view them with a DisplayPort supported monitor. A unique tracking system enables the USB or audio devices to operate independently.

Installation is as easy as connecting USB A-B cables between computers and the ServSwitch DT DisplayPort KVM. To select a port, just press the front-panel button(s). The built-in USB hub ensures smooth switching from one computer to the other. It reduces redundant cables and encourages a neat and tidy working environment.

TECH SPECS

System Requirements
Console Side:
(1) DisplayPort monitor, (1) USB keyboard, (1) USB mouse, (1) microphone and speaker (optional)
Computer Side:
(1) USB-enabled computer with DisplayPort video support
Cables:
Each computer can interface with the KVM switch with: (1) DisplayPort video cable, (1) USB Type A-B cable, (1) Optional audio cable
Operating Systems — Windows® and Mac®
Control — KV9702A: (1) front-panel push button; KV9704A: (4) front-panel push buttons plus Hotkey functions
Automatic Scan Interval — 3, 8, 15, and 30 seconds
Cable Length (Maximum) — 3 m for USB
Resolution (Maximum) — UXGA (1600 x 1200), WUXGA: (1920 x 1200), Full HD (1920 x 1080p), WQXGA (2560 x 1600)
DDC2B Support — Yes
Connectors —
Console: (1) DisplayPort F; (4) USB Type A F ([1] for keyboard, [1] for mouse, [2] for USB 2.0 devices);
CPU: (2) or (4) DisplayPort F; (2) or (4) USB Type B F; (4) or (8) 3.5mm female for audio and micro;
Power: (1) 2.5-mm barrel connector for input, 9–12 VDC
Indicators — (4) or (8) LEDs: Computer Online, Computer Selected;
Power — External in-line power supply ITE, 9–12 V
Size — KV9702A: 3.9H x 16.2W x 10D cm; KV9704A: 4.3H x 22.1W x 12.9D cm
Weight — KV9702A: 0.6 kg; KV9704A: 0.7 kg

Item	Code	Price
ServSwitch DT	DisplayPort with USB and Audio	
2-Port	KV9702 A	**€ 136,80**
4-Port	KV9704 A	**€ 223,10**
You may also need…		
DisplayPort Cables		
1.8 m	EVNDP 01-0006-MM	**€ 9,00**
3.0 m	EVNDP 01-0010-MM	**€ 11,90**
USB Version 2.0 Cables (Type A Male - Type B Male)		
1.8 m	USB 01-0006-MM	**€ 7,50**
3.0 m	USB 01-0010-MM	**€ 9,00**

Black Box Explains

Digital DisplayPort interface

DisplayPort is a new digital video interface. Designed by the Video Electronics Standards Association (VESA), it competes directly with HDMI®. Unlike HDMI, DisplayPort is an open standard with no royalties.

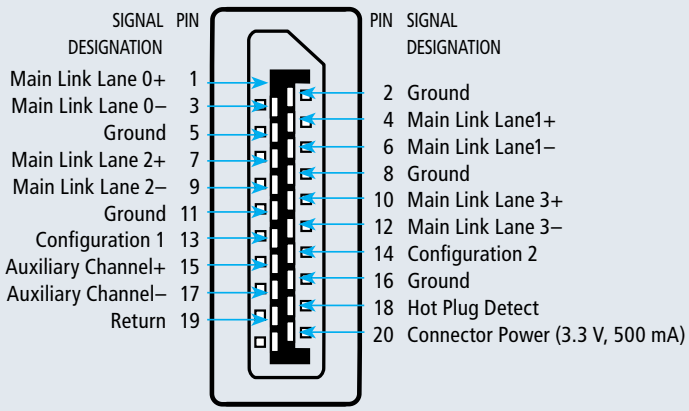
This versatile interface is capable of delivering digital video, audio, bidirectional communications, and accessory power over a single connector. Newer DisplayPort++ connectors support both DVI and HDMI connections with the use of an adapter.

Also, the DisplayPort connector is very compact and has latches that don't add to its size—a quick squeeze of the connector releases the latch. Because it locks into place, accidental disconnections are much less likely.

DisplayPort v1.1 supports a maximum of 10.8 Gbps over a 2-meter cable; v1.2 supports up to 21.6 Gbps. DisplayPort v1.2 also supports daisychaining up to four displays with a single output cable.

Without an extender that converts the signal for CATx transmission, DisplayPort supports cable lengths of up to 15 meter with maximum resolutions at about 3 meter. Bidirectional signaling enables DisplayPort to both send and receive data from an attached device.

DisplayPort interface (1.1a)



Buyer's Guide VGA | KVM Switching

# Users	# Servers	PS/2	USB HID	Audio	Transparant USB 2.0	SAM/CATx (No bulky cable)	VGA/ DVI MIX	Max. Resolution	# Screens	Item	Page
1	2-4	✓	✗	✗	✗	✗	✗	1920x1440	1	ServSwitch DT Basic II	15
1	2-4	✓	✓	✓	✓	✗	✗	2048x1536	1	ServSwitch DT Pro II	15
1	4	✗	✓	✓	✓	✗	✗	2560x1600	1-4	ServSwitch Wizard VGA, USB	15
1	4-16	✓	✓	✗	✗	✗	✗	1920x1440	1	ServSwitch EC	16
1	8-16	✓	✓	✓	✗	✓	✗	1920x1200	1	ServSwitch CX Uno	16
4	16-24	✓	✓	✓	✗	✓	✗	1900x1200	1	ServSwitch CX	17

Buyer's Guide VGA | KVM over IP

# Users	# Servers	PS/2	USB HID	Audio	USB Virtual Media	VGA/DVI MIX	Video Type	Max. Resolution	# Screens	Item	Page
∞	∞	✓	✓	✓	✓	✓	DVI-I	1920x1200	1-2	ServSwitch DTX	19

Buyer's Guide VGA | Remote Access

# IP Users	# Local Users	# Server Ports	# Max. Hosts	PS/2	USB HID	Audio	USB Virtual Media	Video Type	SAM/CATx (No bulky cable)	Max. Resolution	Item	Page
1	1	1	32	✓	✗	✗	✗	VGA	✗	1600x1200	ServSwitch Wizard IP	20
1	3	16-24	128	✓	✓	✓	✗	VGA	✓	1600x1200	ServSwitch CX IP	20
1	1	8-16	31	✓	✓	✓	✗	VGA	✓	1600x1200	ServSwitch CX Uno IP	21
4	1	8-16	256	✓	✓	✓	✗	VGA	✓	1600x1200	ServSwitch CX Quad IP	21
1	1	1	1	✓	✓	✗	✓	VGA	✗	1280x1024	ServSwitch Wizard IP DXS	21

ServSwitch DT Basic II

Use a single PS/2 console to control multiple PS/2 CPUs with PS/2 or serial mice.

PLATFORMS: PC | CONNECTORS: PS/2, VGA | CABLE: Native | SWITCHING: Push Button, Hotkey

- Eliminates the need for multiple PS/2 keyboards, mice, and monitors.
- Supports resolutions up to 1920 x 1440.
- Small footprint makes it ideal for the desktop.
- LEDs indicate selected ports.
- Supports Microsoft® IntelliMouse®, IntelliTrackball, and serial mice.
- Easy to set up. No software to configure.
- ✦✦ WARRANTY — 1 Year

TECH SPECS

Operating Systems Supported — Windows 95/98/Me/XP, Windows NT®, Windows 2000, Windows 7
Resolution (Maximum) — 1920 x 1440
CE Approval — Yes
RoHS — Yes

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch DT Basic II		
2-Port	KV7022A	€ 51,00
4-Port	KV7024A	€ 68,00
For your CPU connections, order...		
ServSwitch DT Basic II CPU Cable		
1.8-m	EHN70023-0006	€ 9,00
2.7-m	EHN70023-0009	€ 12,00
4.5-m	EHN70023-0015	€ 47,00

ServSwitch DT Pro II

Simple, efficient, and reliable 2- or 4-desktop KVM switching for PS/2 or USB CPUs.

PLATFORMS: PC, Mac® | CONNECTORS: PS/2, USB, VGA | CABLE: Composite | PERIPHERALS: Spkr./Mic, USB | SWITCHING: Push Button, Hotkey | FEATURES: FLASH Upgradable

Top: KV7021A, front view; bottom: KV7021A, rear view

- Supports 2048 x 1536 maximum resolution and crystal-clear audio.
- Supports three switching layers: KVM, audio, and USB 2.0 peripherals. Switch layers together or independently.
- ✦✦ WARRANTY — 1 Year

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch™ DT Pro II		
2-Port	KV7020A	€ 126,30
4-Port	KV7021A	€ 178,90
✦ Include (1) ServSwitch DT Pro II, (1) power supply (PS72021), (1) user's manual, and (1) stand for holding switch vertically.		
For your CPU connections, order...		
ServSwitch CPU Cables for DT Series		
1,8 m	EHN7002021-0006	€ 21,00
2.7 m	EHN7002021-0009	€ 26,00
4.6 m	EHN7002021-0015	€ 37,00

ServSwitch Wizard VGA USB Multivideo

High-end VGA KVM switching for multiple computers and USB devices

PLATFORMS: PC | CONNECTORS: PS/2, VGA | CABLE: Native | SWITCHING: Push Button, Hotkey

- A flexible, professional-grade KVM switch for high-performance switching.
- Enables a single user to control four computers and share USB peripherals between them.
- Switch VGA video, keyboard, and mouse streams to multiple CPUs.
- Supports high resolutions up to 2560 x 1600 (WQXGA).
- ✦✦ WARRANTY — 2 Year

With advanced support for multiple high-speed USB devices, the ServSwitch Wizard VGA, USB serves today's busy multitaskers quite well. ServSwitch Wizard VGA supports a wide range of USB devices, especially high-speed USB 2.0 peripherals on its switched USB ports. Printers, scanners, and non-standard HID devices can all be attached. For instance, you can create e-mails on one system, listen to audio on a second one, print from a third computer, and scan documents on a Flash drive—all at the same time.

This highly flexible KVM switch is ideal for IT administrators and medical imaging, graphic design, and broadcast studio professionals who not only require quick, reliable access to multiple computer CPUs and multiple video channels, but also need simultaneous access to a mix of USB peripherals.

The switch is also available in models with dual, triple, or quad VGA video connectors on each of its four computer channels (KV3204A, KV3304A, and KV3404A), providing you with easy access to two, three, or four video heads on each channel. For DVI support, see the ServSwitch Wizard DVI Dual-Link with True USB Emulation models (KV2X04A series).

The video head channel on this high-quality switch supports VGA video at up to 450 megapixels per second. Plus, it supports high resolutions, whether you need 2048 x 1080 video for post-production type work or 2560 x 1600 (WQXGA) image clarity for very detailed medical or R&D lab imaging.

TECH SPECS

Connectors —
KVM user console: Video: (1 up to 4) high resolution VGA;
Keyboard/Mouse: (2) USB Type A (emulated);
Audio: (1) 3.5mm stereo jack;
Switched USB: (2) USB Type A (USB 2.0, not emulated);
Serial option/flash upgrade port: (1) RJ-45 10P10C (RS-232), for syncing control with second KVM switch or for flash upgrades

CE Approval — Yes
RoHS — Yes

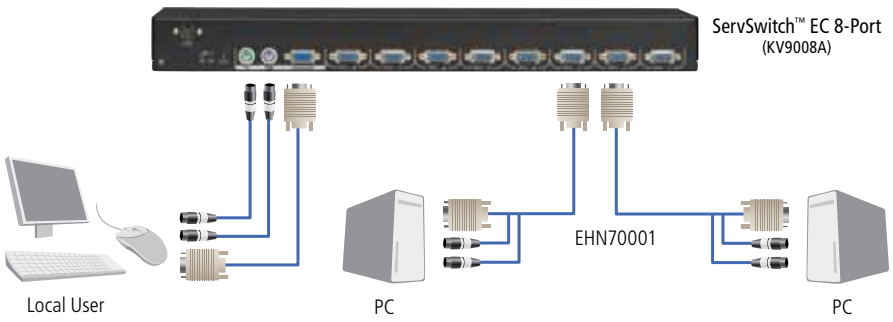
DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch DT Basic II		
Single Head	KV3004A	€ 375,00
Dual Head	KV3204A	€ 580,00
Tri Head	KV3304A	€ 655,00
Quad Head	KV3404A	€ 735,00
You also may need...		
ServSwitch USB		
1.2 m	EHN810-0004	€ 14,20
2.4 m	EHN810-0008	€ 23,50
3.6 m	EHN810-0012	€ 20,30
4.8 m	EHN810-0016	€ 26,90
VGA Video Cable with Ferrite Core, HD15, PVC		
0.9 m	EVNPS06-0003-MM	€ 9,80
1.5 m	EVNPS06-0005-MM	€ 11,70
3.0 m	EVNPS06-0010-MM	€ 17,80
6.0 m	EVNPS06-0020-MM	€ 30,30

ServSwitch EC

Control multiple PS/2 and/or USB servers from your desktop!

PLATFORMS: PC, Mac® | CONNECTORS: PS/2, USB, VGA | CABLE: Composite | SWITCHING: OSD, Push Button, Hotkey | FEATURES: Cascadable



KV9216A: top; front; bottom: rear

- Choose from three versions:
  - Manage up to 16 PS/2 servers and consoles (PS/2 keyboard, PS/2 mouse, and monitor).
  - Manage up to 16 PS/2 and USB servers from a single PS/2 KVM console.
  - Manage up to 16 PS/2 and USB servers from a PS/2 or USB console!
- Resolutions up to 1920 x 1440.
- Cascade up to 136 servers.
- Operating system independent and transparent to all applications.
- Switch servers manually or use autoscan to scan servers sequentially.
- DDC2B compatible for use with the latest digital monitors.
- ✦✦WARRANTY — 1 Year

Want the option of using either a PS/2 or USB keyboard, mouse, and monitor console to control multiple PS/2 and/or USB servers? The ServSwitch EC makes it possible.

To expand your platform to include additional servers, simply cascade units in a master-slave configuration. Cascade up to 16 servers with the 4-port models, up to 64 servers with the 8-port models, and up to 136 servers with the 16-port models. Because the ServSwitch EC is plug-and-play, you can add or subtract servers almost as quickly as you can plug and unplug cables.

Ideal for areas where you have a limited amount of space, the 1U-high ServSwitch EC can be used on the desktop or mounted in a rack or cabinet. (Brackets are included with the 8- and 16-port models.) To save more space, the KVM circuitry is concentrated in a single connector at the server end. This way, you have fewer cables to install when making server connections.

NOTE: Master units can only cascade to slave units that have the same or fewer number of ports.

**You can also cascade KV910xA and KV920xA switches with PS/2 only switches (KV900xA).*

†*The 4-port model is for USB consoles only.*

TECH SPECS

Cable Length (Maximum) — At console: 6 m;
At PC ports for PS/2 server: 9.1 m;
At PC ports for USB server: 4.5 m
Operating Systems Supported — Windows® 98/Me/XP®, Windows NT®, Windows 2000, Windows Vista®, Windows 7, Mac OS
Resolution (Maximum) — 1920 x 1440
CE Approval — Yes
RoHS — Yes

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch™ EC		
for PS/2 Servers and Consoles		
4-Port	KV9004A	€168,40
8-Port	KV9008A	€262,10
16-Port	KV9016A	€468,90
for PS/2 and USB Servers and PS/2 Consoles*		
4-Port	KV9104A	€180,40
8-Port	KV9108A	€312,60
16-Port	KV9116A	€545,90
for PS/2 and USB Servers and PS/2 or USB Consoles*		
4-Port†	KV9204A	€214,00
8-Port	KV9208A	€394,40
16-Port	KV9216A	€634,80
For your server connections, order....		
ServSwitch EC Server Cable		
PS/2 1.8 m	EHN70001-0006	€18,00
3.0 m	EHN70001-0010	€19,00
4.5 m	EHN9000P-0015	€21,00
9.1 m	EHN9000P-0030	€41,00
USB 1.8 m	EHN9000U-0006	€18,00
3.0 m	EHN9000U-0010	€19,00
4.5 m	EHN9000U-0015	€21,00

ServSwitch CX Uno

High-end, multiplatform KVM switching over CATx cabling with remote access capabilities.

KV0161A

- Set up CATx-based local and remote KVM access to 8 or 16 CPUs or servers—switch from a KVM console up to 300 m away.
- Supports resolutions up to 1920 x 1200 at 60 Hz and offers DDC EDID display support.

PLATFORMS: PC, Sun™, Mac® | CONNECTORS: USB, VGA | CABLE: CAT5, 5e, 6 | PERIPHERALS: Speaker | SWITCHING: OSD, Push Button, Hotkey, Serial | FEATURES: FLASH Upgradable, Cascadable

KV04U-REM

- Slim and compact. Connect to as many as 31 cascaded servers in 1U of rack space.
- Switch remotely using RS-232 commands and set up synchronized switching of multiple units—great for multi-head video applications.
- Available with stereo audio support, too.
- Assign three levels of users for access security.
- ✦✦WARRANTY — 2 Years

CE Approval — Yes
RoHS — Yes

DOUBLE DIAMOND WARRANTY

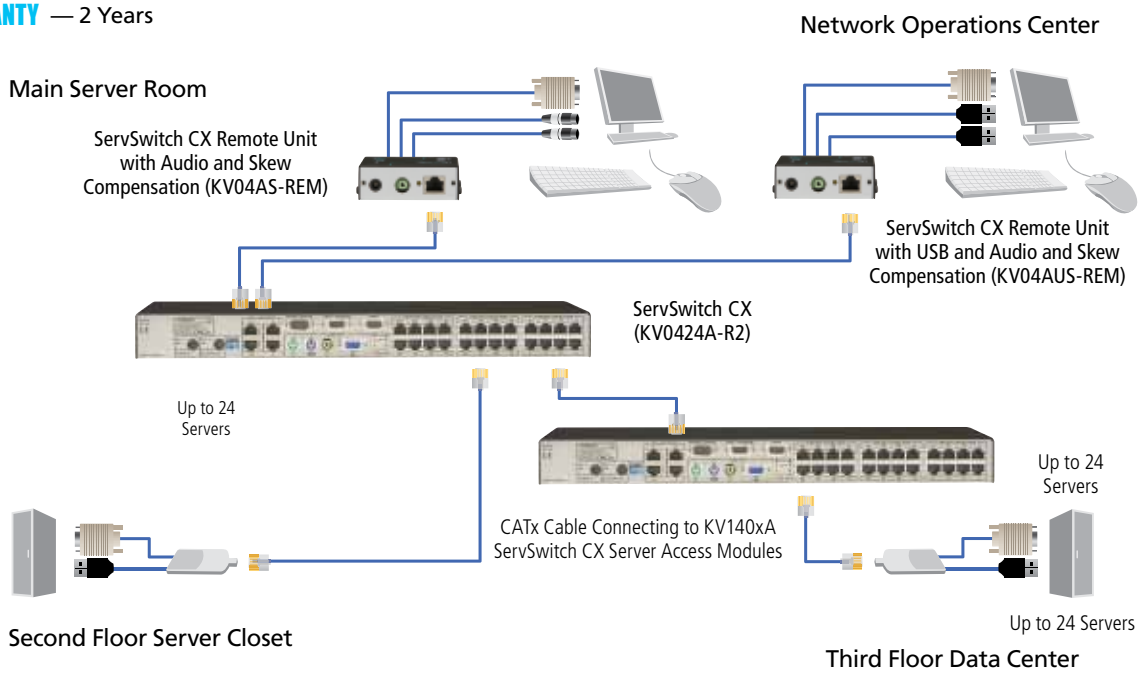
Item	Code	Price
ServSwitch™ CX Uno		
8-Port	KV0081A	€365,00
16-Port	KV0161A	€475,00
19" Rackmounting Kit 1U for		
Single Unit	RMK2004	€54,80
Two Units	RMK2004-2	€60,90
To link CPUs up to 10 m away over CATx, order a SAM for each connection…		
ServSwitch CX Server Access Modules (SAMs)		
PS/2	KV1400A	€75,00
USB	KV1401A	€75,00
PS/2 with Audio	KV1402A	€92,00
USB with Audio	KV1403A	€92,00
Sun® with Audio	KV1404A	€92,00
For remote CPU/server access up to 300 m away over CATx, order…		
ServSwitch CX Remote Access Modules		
PS/2	KV04-REM	€285,00
USB	KV04U-REM	€310,00
PS/2 with Audio	KV04A-REM	€325,00
USB with Audio	KV04AU-REM	€395,00
PS/2 with DeSkew and Audio	KV04AS-REM	€395,00
USB with DeSkew and Audio	KV04AUS-REM	€465,00

ServSwitch CX

Up to 4 users can access and control 16 or 24 multiplatform servers connected via CATx cable.

- Maximum resolution is 1900 x 1200.
- Ideal for small and mid-size data centers.
- Reset one or more host system power switches via the switch's power control port.
- Supports PS/2 or USB style keyboard and mouse.
- Includes rackmounting hardware.
- ✦✦WARRANTY — 2 Years

KV0416A-R2


Network Operations Center
Main Server Room
ServSwitch CX Remote Unit with Audio and Skew Compensation (KV04AS-REM)
ServSwitch CX Remote Unit with USB and Audio and Skew Compensation (KV04AUS-REM)
ServSwitch CX (KV0424A-R2)
Up to 24 Servers
Up to 24 Servers
CATx Cable Connecting to KV140xA ServSwitch CX Server Access Modules
Up to 24 Servers
Second Floor Server Closet
Third Floor Data Center

Easier connections than ever!

The ServSwitch™ CX enables up to four users to connect to the switch via CAT5, CAT5e, or CAT6 UTP cable — no bulky KVM cables to deal with. In addition, you can mix and match different kinds of servers on the same CX switch. Just run CATx cables from the switch's server ports to the Server Access Modules (SAMs) that connect to your servers. Simply choose the appropriate SAM for each server and you're all set.

What's more, you can connect the ServSwitch CX to either a PS/2 or USB keyboard and mouse—it includes both connector types.

Simple server selection.

Whether you're working at a user station or the local analog console port in the server room, you can select a server to access and control via on-screen menus or hotkeys. On-screen menus make server selection simple because you can give each server a name that makes sense to you.

Sight and sound support.

The ServSwitch CX provides super-sharp resolutions up to 1900 x 1200 for all users up to 50 m away. And at up to 300 m away, the CX displays 1024 x 1280 video resolution.

By choosing a SAM with audio, you add support for stereo speakers, enabling you to hear audible alerts.

Ready right now — and for the future.

The ServSwitch CX comes complete with rackmounting hardware to install the switch in any open 1U of rack space in your server room. The switch can also be flash upgraded, so it's obsolescence-proof.

Cascadable with the ServSwitch CX with IP

For even greater versatility, you can cascade this switch with its IP-enabled version, the ServSwitch CX with IP (page 20).

TECH SPECS

Distance (Maximum) — 300 m
Resolution (Maximum) — 1920 x 1200 @ 50 m
CE Approval — Yes
RoHS — Yes
Power — 100–240 VAC, 50–60 Hz, autosensing
Size — KV0416A-R2, KV0424A-R2:
(1U) 4,4 H x 48,3 W x 21,6 D cm

Item	Code	Price
ServSwitch CX, (1) Local Console Port + (4) Remote CATx User Ports		
(16) Servers	KV0416A-R2	**€1400,00**
(24) Servers	KV0424A-R2	**€1550,00**
For each server connection, you need…		
ServSwitch CX Server Access Modules		
PS/2 Basic	KV1400A	**€75,00**
with Audio	KV1402A	**€92,00**
USB Basic	KV1401A	**€75,00**
with Audio	KV1403A	**€92,00**
Sun with Audio	KV1404A	**€92,00**
To connect a remote console to any of the switches using CATx cable, order…		
ServSwitch CX Remote Units		
PS/2 Basic	KV04-REM	**€285,00**
with Audio	KV04A-REM	**€325,00**
with Audio and Skew Compensation	KV04AS-REM	**€395,00**
USB Basic	KV04U-REM	**€310,00**
with Audio	KV04AU-REM	**€395,00**
with Audio and Skew Compensation	KV04AUS-REM	**€465,00**

Black Box Explains
KVMoIP access technology.

KVM over IP, or KVMoIP, access technology extends keyboard, video, and mouse (KVM) signals from any computer or server over TCP/IP via a LAN, WAN, or Internet connection. Through this KVMoIP connection, remote users can access and control a number of servers simultaneously from where they are, inside or outside the organization, and anywhere in the world. This technology works in diverse hardware environments and is ideal for managing multilocation data centers and branch offices.

These capabilities translate into real savings for companies having to deal with the proliferation of servers in many offices, particularly for corporations and government agencies required to deliver 24/7 uptime and real-time access to mission-critical servers 365 days a year.

KVMoIP products combine the advantages of remote access software with the benefits of KVM switching technology. Like most KVM switches, KVMoIP products don't require any software to be loaded on the host computers. They interface directly with the keyboard, monitor, and mouse connectors of the host computer or KVM switch. Circuitry within the KVMoIP device digitizes the incoming video signal and processes it into digital data that is communicated to a viewer program running on a remote client computer over a LAN/WAN or the public Internet.

By addressing network issues from a remote location, you can simply manage issues from you desk, or even save yourself the hassle of traveling to a site in the middle of the night. Use a browser-based connection, even a cell phone or PDA, to reboot or administer a roomful of servers remotely—a real convenience.

KVMoIP products that feature virtual media technology take that convenience further. They enable a remote user to effortlessly move files from a mass storage device—a USB flash drive or CD-ROM drive, for instance—from you location to the computer on which you're working. Cost savings are realized through reduced downtime and less travel. Plus, in some cases, there's no need to replace existing KVM switches with proprietary ones to get a KVMoIP server-control solution.

The Black Box difference

Black Box® ServSwitch™ KVMoIP solutions -- which include KVM switches, KVM trays, and management software -- go further than many other KVMoIP products on the market. They not only enable you to access remote servers, but they do it at the BIOS level, which is important when you need to troubleshoot from off-site and don't want to dispatch a technician. Install or recover software applications and install OS patches from your location anywhere in the world. Plus this BIOS-level control is possible regardless of the server's brand or model and even works if the operating system is down.

ServSwitch CX Uno KVM Switch with IP (page 21)

The ServSwitch CX Uno KVM Switch with IP provides server access management for one user in a multiplatform KVM switch with IP. The switch uses CATx twisted pair cable to connect one local or one IP user to up to 16 servers.

The ServSwitch CX Uno enables IP access to servers across any IP network. Users access and switch remotely over a private intranet or over the Internet with a Java enabled Web browser or VNC client.

Tight security

Although the ServSwitch Uno KVM Switch with IP can be set up behind a network firewall, it has the security features it needs to be safe as a stand-alone switch. This enterprise-grade KVM switch uses AES128 bit encryption and RSA2048 authentication, ensuring the control system remains secure at all times. It's possible to configure up to 16 separate users internally with unique access privileges, all of which are stored only within the switch.

Easy connections

User stations and servers are connected via lightweight and inexpensive CAT5, CAT5e, or CAT6 UTP cable — no bulky KVM cables are needed. UTP cable provides more distance that KVM cable to connect the servers. Server Access Modules (SAMs) provide keyboard, video, mouse, and speaker connections. Servers can be placed 9.8 m from the switch.

Green technology

ServSwitch CX Uno KVM Switches with IP feature Ecopulse circuitry. Ecopulse powers down unused circuits when they are not required. Over the life of the switches, this reduction of power saves significant resources.

ServView KVM Tray with CATx Integrated KVM Tray Module (page 23)

In addition to the CX switches with IP, Black Box offers KVM trays with IP-enabled switch modules. The tray modules provide multiplatform support using USB, PS/2, or Sun compatible SAMs, and CATx patch cables ensure neat rack installation. The KVMoIP tray modules enable network users to control the switching module from a computer on the LAN or WAN using a VNC viewer or Web browser.

Connecting the CX Uno expands the system by enabling users to control a serial power switch, enable password security access with user profiles, respond to RS-232 switching commands, and much more. Additionally, KVMoIP modules come with free WIZARD.NET management software (page 11), simplifying the access, security, and management systems with larger numbers of computers or users.

Cleaning up.

A large medical centre had an urgent need for its surgeons and practitioners to be able to view high resolution images of x-rays, photographs and medical charts from its servers — as well as conforming to patient confidentiality and data protection laws — whilst still maintaining a completely sterile environment. Power supply fans inside PCs or Servers suck in air to cool down the processor, which means they are unsuitable for such an environment as germs and dust can easily gather. Cleaning them is also not practical as joints, holes and openings are common.
Black Box provided the solution by enabling the servers to be placed down the corridor in a secure environment, and using a ServSwitch DTX to extend the keyboard, monitor and mouse into operating theatres, x-ray and consulting rooms. Cleaning was now not an issue as the keyboards, displays and mice were of a medical standard ensuring they could be disinfected directly.

Getting noticed.

A well-known advertising agency required a method of moving live video from a server in a data cupboard, up to a 103" screen in a large central London train station. The screen resolution was full high definition (1920 x 1080p) and the videos displayed were advertisements that needed to be displayed clearly and concisely, and without interference.
The Black Box DTX was chosen as the reliable method for transporting high resolution video across the train station, to the large screen. The DTX introduced no loss and transported the original video faithfully. Even on the large display, there were no signs of artefacts or anomolies.

ServSwitch DTX

The IP KVM extender, matrix switch, and multimedia solution.

- Extends a USB or PS/2 computer's KVM, audio, and USB 2.0 peripheral signals hundreds or even thousands of kilometers over an IP network to a workstation with one or two DVI-I monitors, speakers, and a USB or PS/2 keyboard and mouse.
- Features USB virtual media (VM) support.
- Connect up to four USB 2.0 devices to a receiver.
- Encrypts media streams for Secure Socket Layer (SSL) connections over a TCP/IP link.
- Using the extender's password-protected serial interface menu, you can configure network connections, change video settings, perform flash upgrades, configure hotkeys, and more.
- Supports PC, Sun™, and Mac® CPUs and works with Windows®, Redhat® Linux, Sun Solaris™, and Mac operating systems.
- The single-head components support resolutions up to 1280 x 1024 at 60 Hz. Dual-head components support resolutions up to 1920 x 1200 at 60 Hz!
- ✦✦ **WARRANTY** — 1 Year

The ServSwitch™ DTX extends KVM and multimedia long distance over any IP network, eliminating the distance limitations of copper and fiber optic extenders. It extends a USB or PS/2 CPU's KVM, audio, and USB peripheral signals hundreds or even thousands of miles over an IP network to a workstation with a DVI monitor, speakers, and a USB or PS/2 keyboard and mouse—or a mix of both.

Only the ServSwitch DTX features USB virtual media (VM) support. With USB VM, you can use the four USB ports on the DTX's receiver to connect to and access USB 2.0 CD-ROM drives, USB removable hard drives, or other USB peripherals. If you use a PS/2 keyboard and mouse with the receiver, all four USB ports can be used for USB devices.

The DTX displays 24-bit, 60-fps color video and supports resolutions up to 1920 x 1200. In addition, it also supports DVI and VGA for universal video compatibility, plus it delivers CD-quality sound for robust audio extension. For demanding multimedia applications, just connect the DTX to either Fast Ethernet or Gigabit Ethernet.

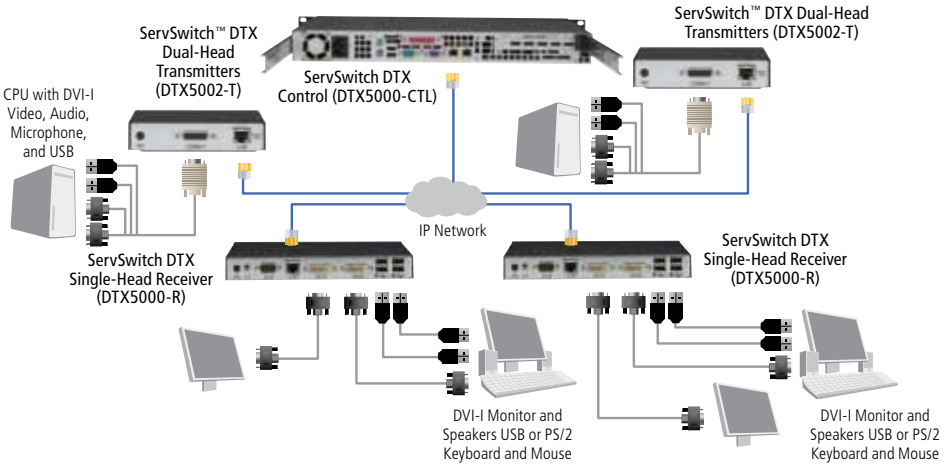
The ServSwitch DTX Single-Head, Inline Conversion components (DTX5001) support in-line conversion of video signals. In other words, if you input digital signals, you can output analog signals and vice versa.

The single-head and dual-head DTX components (DTX5000 and DTX5002) support both DVI and VGA, but cannot convert signals—what you put in is what you get out. Dual-head receivers enable you to use two DVI-I monitors at a remote workstation.

The ServSwitch DTX Control appliance is a KVM management system that enables matrix switching, control, and authentication capabilities. With the ServSwitch DTX, you can place your CPU in a safe location to protect it from the dust and vibrations of an industrial environment, and you can secure it from would-be thieves by locking it away in a cabinet or control room.

ServSwitch DTX receiver (DTX5000-R): top: front view; bottom: rear view

KVM Matrix Switching with USB Virtual Media over IP


ServSwitch™ DTX Dual-Head Transmitters (DTX5002-T)
ServSwitch™ DTX Dual-Head Transmitters (DTX5002-T)
ServSwitch DTX Control (DTX5000-CTL)
CPU with DVI-I Video, Audio, Microphone, and USB
IP Network
ServSwitch DTX Single-Head Receiver (DTX5000-R)
ServSwitch DTX Single-Head Receiver (DTX5000-R)
DVI-I Monitor and Speakers USB or PS/2 Keyboard and Mouse
DVI-I Monitor and Speakers USB or PS/2 Keyboard and Mouse

Item		Code	Price
For point-to-point KVM extension over IP, order…			
ServSwitch™ DTX Kits	Single-Head	DTX5000	call
	Single-Head, Inline Conversion for Video	DTX5001	call
	Dual-Head	DTX5002	call
✦ All kits include (1) transmitter and (1) receiver. The DTX5000 and DTX5001 include (1) autosensing power supply; the DTX5002 includes (2) power supplies.			
For individual ServSwitch DTX units, order…			
ServSwitch DTX Single-Head	Transmitter	DTX5000-T	call
	Receiver	DTX5000-R	call
ServSwitch DTX Single-Head, Inline Conversion for Video	Transmitter	DTX5001-T	call
	Receiver	DTX5001-R	call
ServSwitch DTX Dual-Head	Transmitter	DTX5002-T	call
	Receiver	DTX5002-R	call
For KVM matrix switching over IP with single-head applications, order…			
ServSwitch DTX Control		DTX5000-CTL	call
For each DTX5000-T transmitter unit not connected to a CPU's USB port, you'll need…			
ServSwitch DTX Transmitter Power Supply		DTX5000-PS	call
To mount a receiver to the back of a flat-panel monitor or to a flat surface, order…			
ServSwitch DTX Receiver Mounting Plate		DTX5000-MMK	call
To connect a VGA monitor to the receiver, order…			
DVI-I Male–VGA HD15 Female Adapter		FA461	call
To connect the transmitter to a CPU with a VGA video output, order…			
DVI-I Female–VGA HD15 Male Adapter		FA462	call

ServSwitch Wizard IP

Securely access your computer or ServSwitch from anywhere

PLATFORMS: PC, Sun™, Mac® | CONNECTORS: PS/2, USB, 8-Pin, VGA, DVI-I | CABLE: Native | PERIPHERALS: Speaker, VM, Serial | FEATURES: IP, FLASH Upgradable

Connect the Wizard IP to just about any other ServSwitch product as well as IBM® compatible, Sun™, or Mac® servers. The updated firmware enables you to use either a PC or Mac computer to view connected servers from a remote location.

- Enables you to access your computer or ServSwitch from anywhere in the world using an IP network or dial-up correction.
- Compatible with VNC (Virtual Network Computing) and Java (Web browser) viewers.
- Enterprise grade security with AES 128 encryption and RSA 2048 authentication.
- High LAN performance provides near realtime console experience.
- Easy OSD (on screen display) driven setup and configuration.
- Power control functions supported via serial ports.
- No software needed.
- ✦✦ WARRANTY — 2 Years

TECH SPECS

Operating Systems Supported; Windows®; 3.x/95/98/Me/XP, Windows NT®;, Windows 2000; DOS; Linux®; UNIX®; BSD; Sun; Macintosh®; NetWare®
Protocol; Ethernet: TCP/IP
Resolution (Maximum); 1600 x 1200 at 60 Hz
Software Compatibility; Limited security: AT&T® 3.3.3, RealVNC 3.3.4 and higher; Full security: RealVNC 4.0 and higher; requires Java™ enabled browser
Connectors; Connected ServSwitch: Video: (1) HD15 F; Keyboard: (1) 6-pin mini DIN F; Mouse: (1) 6-pin mini DIN F; Local KVM Console: Video: (1) HD15 F; Keyboard: (1) 6-pin mini DIN F; Mouse: (1) 6-pin mini DIN F; Network: (1) 10-/100-Mbps autosensing RJ-45; Modem/ISDN: (1) DB9 M; Power Control: (1) DB9 M
CE Approval — Yes
RoHS — Yes
Indicators; (6) LEDs: PWR, LNK, 100, VNC, REM, LOC
Power; 110-230 VAC, 50/60 Hz, external
Size; 4.4 H x 20 W x 11.7 D cm

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch Wizard IP		
	ACR2004A	**€ 833,10**

ServSwitch CX with IP

The multiplatform KVM switch that uses CATx cable and has remote IP connectivity.

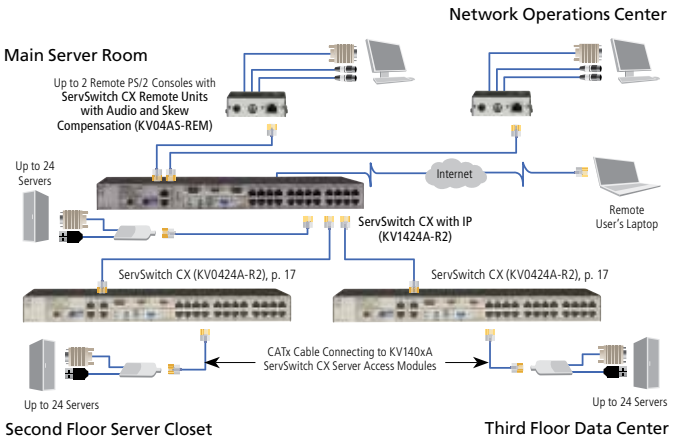
PLATFORMS: PC, Sun™, Mac® | CONNECTORS: PS/2, USB, 8-Pin, VGA | CABLE: CAT5, 5e, 6 | PERIPHERALS: Speaker | SWITCHING: OSD, Push Button, Hotkey | FEATURES: IP, FLASH Upgradable, Cascadable

- IP support enables you to access servers remotely.
- Connect one local user, one IP user, and up to two remote users—simultaneously.
- 1600 x 1200 remote resolution with scalable windows.
- Simplify cabling with CAT5, CAT5e, or CAT6 UTP cable.
- Supports PC, Macintosh®, and Sun™.
- Connect PS/2 or USB keyboards and mice.
- Cascade switches to control up to 128 servers.
- ✦✦ WARRANTY — 2 Years

The ServSwitch™ CX with IP may just be our most versatile ServSwitch ever—it has all the features you're looking for to help manage your enterprise network. Like the ServSwitch CX (page 17), this model is compatible with all major computer platforms and connects via lightweight, inexpensive twisted-pair cable. But the ServSwitch CX with IP also enables you to access servers across any IP network.

It's secure, too.

Although the ServSwitch CX with IP can be installed behind the security of your network firewall, it has the robust security features it needs to be safe on its own. Sophisticated 128-bit public/private key protection locks the switch tight against unauthorized access. Two-tier password protection—administrative and non-administrative—adds another layer of security. You can also restrict client IP addresses, limit access to dialup connections only, or use non-standard port numbers to further confound would-be hackers.


Network Operations Center
Main Server Room
Up to 2 Remote PS/2 Consoles with ServSwitch CX Remote Units with Audio and Skew Compensation (KV04AS-REM)
Up to 24 Servers
Internet
Remote User's Laptop
ServSwitch CX with IP (KV1424A-R2)
ServSwitch CX (KV0424A-R2), p. 17
ServSwitch CX (KV0424A-R2), p. 17
CATx Cable Connecting to KV140xA ServSwitch CX Server Access Modules
Up to 24 Servers
Up to 24 Servers
Second Floor Server Closet
Third Floor Data Center

TECH SPECS

Distance (Maximum) — 300 m
Resolution (Maximum) — 1920 x 1200 @ 50 m
CE Approval — Yes
RoHS — Yes
Power — 100–240 VAC, 50–60 Hz, autosensing
Size — KV1416A-R2, KV1424A-R2: (1U) 4.4 H x 48.3 W x 27.9 D cm

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch CX with IP, (1) Local Console Port + (2) Remote CATx User Ports + (1) IP User Port + (1) Modem Port		
(16) Servers	KV1416A-R2	**€1.970,00**
(24) Servers	KV1424A-R2	**€2.122,30**
For each server connection, you need…		
ServSwitch CX Server Access Modules		
PS/2 Basic	KV1400A	**€75,00**
with Audio	KV1402A	**€92,00**
USB Basic	KV1401A	**€75,00**
with Audio	KV1403A	**€92,00**
Sun with Audio	KV1404A	**€92,00**
To connect a remote console to any of the switches using CATx cable, order…		
ServSwitch CX Remote Units		
PS/2 Basic	KV04-REM	**€285,00**
with Audio	KV04A-REM	**€325,00**
with Audio and Skew Compensation	KV04AS-REM	**€395,00**
USB Basic	KV04U-REM	**€310,00**
with Audio	KV04AU-REM	**€395,00**
with Audio and Skew Compensation	KV04AUS-REM	**€465,00**

ServSwitch CX UNO IP
ServSwitch CX QUAD IP

PLATFORMS: PC, Mac®, Sun | CONNECTORS: PS/2, USB, VGA, SERIAL | PERIPHERALS: SPEAKER | CABLE: CAT5, 5E, 6 | FEATURE: DAISYCHAINABLE, IP, UPGRADABLE | SWITCHING: OSD

High-end multi-platform KVM switching with up to 4 simultaneous IP users

- Shared local- and IP-user console via web browser or VNC with the ServSwitch CX UNO IP and up to 4 IP-user consoles with the ServSwitch CX QUAD IP
- Perfect video quality up to 1600 x 1200 @ 60Hz.
- Integrates with Wizard.Net in enterprise management software.
- Easily cascadable via CATx
- Together with a KVM drawer like the ServView (page 23), it is an ideal solution for dense server rack environments with IP based remote control options
- Integration with RS-232/V.24 power switches provides complete hard reboot function.

The ServSwitch CX UNO IP and and QUAD IP are based on the ServSwitch CX IP Matrix series. This guarantees a high level of quality and compatibility across multiple server hardware and software platforms.

Like all models within the highly successful ServSwitch CX family, this unit takes full advantage of CAT5/5e/6 structured cabling to provide flexible installation and configuration. Every connected computer is linked by up to ten metres of standard CATx cable and one of five types of SAM (Server Access Module) according to the port arrangements on each computer. The ServSwitch CX Quad IP can directly support up to sixteen computers, however, this total can be increased to a maximum of 256 by adding ServSwitch CX UNO units in cascade to provide a much larger network of controlled computers. All ServSwitch CX models provide full enterprise level security to restrict access to authorized personnel.

The CX UNO IP and QUAD IP are provided with a highperformance local KVM console connection that supports USB keyboards and mice, highquality video and stereo-digital audio. This means that you can use USB keyboards and mice to control your computers in the server room or an IP connection to access systems from elsewhere. An OSD function also makes setup and control of the ServSwitch simple.

TECH SPECS

Connectors — (8) or(16) RJ-45 to servers; (1) RJ-45 F TCP/IP; (1) RS-232 M for upgrade and control; (2) USB Type A F for Kbd/Ms (1) HD15 F for VGA; (1) 3.5-mm Audio Jack F (only KV1081A, KV1161A)
Power — 100–240 VAC/5 VDC 2.5A autosensing
Size — 4.4H x 20W x 12D cm
Weight — 0.7kg

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch CX UNO IP		
8-Port	KV1081A	**€ 865,00**
16-Port	KV1161A	**€ 975,00**
ServSwitch CX QUAD IP		
16-Port	KV4161A	**€ 1490,00**
Server Access Modules (SAMs)		
PS/2	KV1400A	**€ 75,00**
USB	KV1401A	**€ 75,00**
with Audio		
PS/2	KV1402A	**€ 92,00**
USB	KV1403A	**€ 92,00**
Sun	KV1404A	**€ 92,00**
Server Acces Modules Display Port (SAMs)		
USB with Audio	KV1407A	**call**

ServSwitch Wizard IP DXS
Direct IP access to your server.

PLATFORMS: PC, Mac® | CONNECTORS: PS/2, 8-Pin, VGA | CABLE: CAT5, 5E, 6 | FEATURE: Native, IP | PERIPHERALS: VM

- Compatible with USB and PS/2 servers.
- Virtual Media support for true remote management.
- Available in single- and dual-access versions.
- High video performance and smooth mouse handling via IP.
- Eliminates bottlenecks in mission-critical server administration.
- Nearly unlimited scalability.

The ServSwitch Wizard™ IP DXS enables you to efficiently manage everything from a single server to a complete cluster of servers. Because it connects directly to your servers, you're guaranteed the best video performance—even on higher resolutions–as well as smooth mouse handling.

Access the ServSwitch Wizard IP DXS via a Web browser or VNC. For larger installations, you can use the new ServSwitch Wizard IP Management Software to manage multiple servers and sites at a central point.

The ServSwitch Wizard IP DXS is fully interface powered, and it provides five-second bootup times, which gives you full KVM access down to the BIOS level of a server. If you need a shorter bootup time, you can use the optional external power supply.

The ServSwitch Wizard IP DXS also has Virtual Media support, which means you can add patches remotely. What's more, the DXS gives direct access to many users simultaneously. Simply add a DXS module for each user you wish to add. This makes the DXS a highly reliable server management system because it means there's no single point of failure, and it eliminates access bottlenecks like you have with other KVM over IP switches.

TECH SPECS

Connectors — Both: (1) RJ-45 Ethernet, (1) 2.5 mm DC
Power; ACR101A: (1) HD15 F (Video) (2) PS/2
Keyboard/Monitor/Mouse; ACR201A: (2-) HD15 F (Video) (4) PS/2; Keyboard/Monitor/Mouse;
Configuration — Over the server's USB port using a setup program or via Web browser
Indicators — LEDs: 10/100, Link, Data, Power, Keyboard/Mouse VNC
Power— Interface powered (5 VDC, IA) or optional power supply (PS649-R2)
Size — ACR101A: 2.5H x 7.5W x 17D cm; ACR201A: 5H x7.5W x 17D cm
Weight — 0.5 kg

DOUBLE DIAMOND WARRANTY

Item	Code	Price
ServSwitch Wizard IP DXS		
Single Access	ACR101A	**€ 370,00**
Dual Access	ACR201A	**€ 517,00**
✦ Includes (1) Set of KVM Cables, (2) PS/2-to-USB Adaptors, (4) Self-Adhesive Rubber Feet, and a Manual.		
You may also need…		
Optional External Power Supply	PS649-R2	**€ 58,00**
19" Rackmount Chassis for up to 16 Switches	ACU5000A	**€ 230,00**
Power Distribution Module for Rackmount Chassis	PS5000-R2	**€ 218,00**

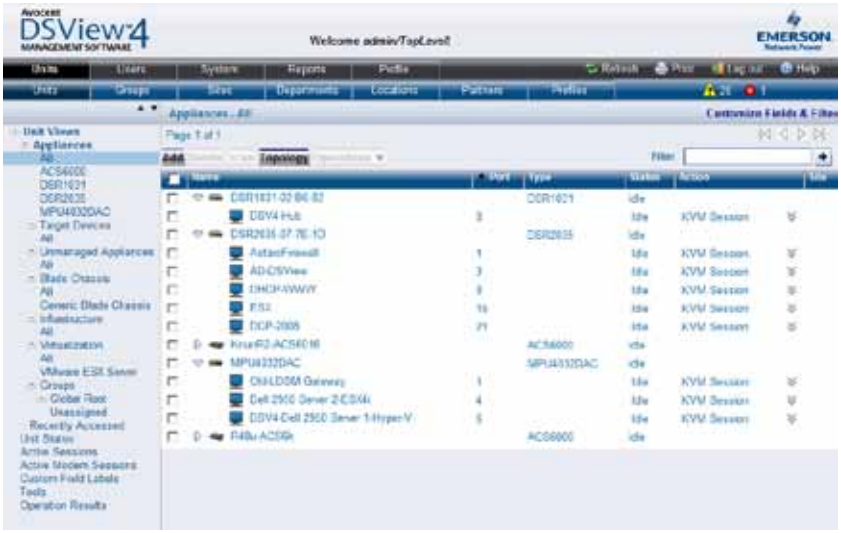
DSView® 4 Management Software
Secure, Centralized Access and Control

Applications

- Secure, remote, centralized data center management of both physical and virtual assets from a single interface
- Access service processors from all major server manufacturers
- Data logging/archiving for regulatory and audit compliance
- Modem and ISDN support
- Support for blade servers
- Remote problem resolution
- IPv6 capable

Benefits

- Hub and spoke architecture for redundancy and real-time synchronization
- User authentication through internal or external services such as LDAP, Active Directory, NT Domain, TACACS+, RADIUS and RSA SecurID®
- Support for 2048-bit SSL Encryption and compliance with FIPS 140-2
- Fast and easy deployment with pre-configured Appliance Configuration Templates



The DSView 4 management software provides data centers with a secure, centralized management solution for all IT assets. DSView 4 software allows administrators to access, diagnose and modify any managed device from any point on the globe, regardless of the health or status of the operating system or the network connection to those devices. DSView 4 software makes your data center and remote offices more:

Manageable

DSView 4 software provides a single, secure, browser-based interface to manage your entire data center environment, including the following:

- Blade servers and enclosures
- VMware 4 Virtual Infrastructure to include Center Servers (formerly Virtual Centers), ESX Servers and Virtual Machines
- Rack-mounted servers
- KVM over IP switches
- ACS Advanced Console Servers
- Power Management Power Distribution Units (PM PDUs)
- Service Processor Managers (SPM)
- Embedded server management technologies
- Third-Party PDUs and KVM over IP appliances

DSView 4 software also provides custom views for each user, graphical report building and task automation tools, along with a holistic view of your network assets no other system can equal. Administrators can ease and increase speed of deployment with Appliance Configuration Templates, pre-configured with their common parameters.

Accessible

The DSView 4 software " hub and spoke" architecture allows for high availability and distributed, consolidated access across locations. The out-of-band features on the DSView 4 software allow administrators to diagnose and repair problems even when gateways, routers or other IP connectivity is down.

Extensible

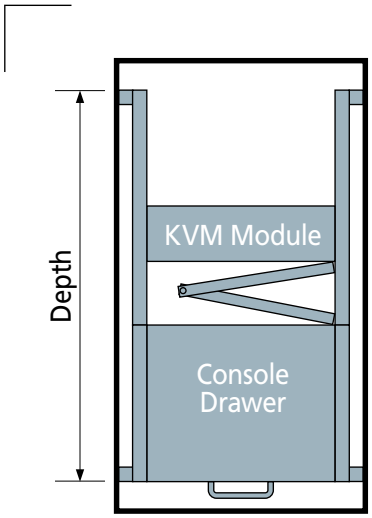
Data centers evolve. Whether you're migrating to blades, experimenting with SANs or simply trying out a new router, DSView 4 software can help you maintain control by integrating with new technologies and providing a consistent management interface, regardless of your underlying infrastructure. DSView 4 software offers deep, pre-built integration with HP software, NetClarity, Uptime Devices, VMware and others. It also provides an API to integrate third-party applications, tools and systems.

Secure

DSView 4 software easily integrates with your existing security infrastructure, authenticating against your internal or external standards-based services. All traffic is encrypted and the detailed activity logs provide a critical audit trail for issue resolution and regulatory compliance. By minimizing the need for local access in the data center, the remote management capabilities allow you to physically lock down sensitive machines for greater peace of mind.

ServView 17
17"-multisync KVM tray in 1 U

- Easy mounting, multisync 17" KVM tray
- Optimal resolution 1280 x 1024 at 60Hz
- Minimum mounting depth of 500 mm
- Integrated 4, 8- and 16-port switches – PS/2 only and PS/2 + USB – for optimal rack space usage
- Higher resolutions than 1280 x 1024 supported by downscaling
- CATx KVM switch modules with optional IP access
- ✦✦ WARRANTY — 2 Years



The ServView 17 offers maximum KVM control in minimum space! With its multisync display, the ServView 17 provides full video compatibility even to a Sun workstation' running composite sync video at 1152x900 at 66/76Hz (requires keyboard/mouse conversion)!

Integrated 8- or 16-Port ServSwitch

To optimise rack space, the ServView 17 can be equipped with either an 8- or 16-port SerSwitch without adding any extra space!

Switching can be performed via front-panel buttons or inuitive on-screens menus. Additionally two DVI-D switching modules are available with either four or eight ports plus USB keyboards and mouse.

New : Integrated CATx KVM Switching with optional IP acces

Now CX ServSwitches are also available in a rear mount version for the ServView17.
If you need only a local connection to the ServView17, but want to take advantage of the easy CATx server interconnections in combination with high end KVM Switching choose KVT127E-BE-0IP16 for up to 16 computers.
If you need to access your computers in addition also remotely via VNC/web browser, then select the KVT127E-BE-1IP08 resp. KVT127E-BE-1IP08 for one IP session at a time or the KVT127E-BE-4IP16 for up to 4 simultaneous IP sessions on 16 computers. The IP engine supports resolutions up to 1600 x 1200 at 60Hz to ensure there is enough power to allow smooth KVM over IP control.

TECH SPECS

Mechanical:
Height — 1 U
Width — 19"
Depth — 500mm – 900mm
Connectors — Video in: (1) HD15 F; Keyboard/mouse: (2) 6-pin mini DIN; Power: (1) barrel connector

Display:
Contrast — 450:1
Optical Response Time 16ms
Resolution (Maximum)— 1280x1024 @ 75Hz
Opt. Resolution — 1280x1024 @ 60 Hz
Screen Diagonal — 17" (432mm)
Synchronisation — H/V, RGBS, SOG
Viewing Angle (H/V/R/L) — 70°/70°/70°/70°
White Luminance — 260cd/m

Item	Code	Price
ServView 17 17'' KVM Tray with keyboard		
	KVT127E-BE	Call
ServView 17 + 4-port Switch		
DVI, USB	KVT127E-BE-4-DU	Call
ServView 17 + 8-port Switch		
DVI, USB	KVT127E-BE-8-DU	Call
VGA, PS/2	KVT127E-BE-8-P	Call
VGA, PS/2, USB	KVT127E-BE-8-MP	Call
ServView 17 + 16-port Switch		
Depending on CX SAM	KVT127E-BE-OIP16	Call
VGA, PS/2	KVT127E-BE-16-P	Call
VGA, PS/2, USB	KVT127E-BE-16-MP	Call
ServView 17 + 8-port CX UNO IP Switch		
Depending on CX SAM	KVT127E-BE-1IP08	Call
ServView 17 + 16-port CX UNO IP Switch		
Depending on CX SAM	KVT127E-BE-1IP16	Call
ServView 17 + 16-port CX QUAD IP Switch		
Depending on CX SAM	KVT127E-BE-4IP16	Call

ServView Full HD
Ergonomic 17" KVM drawer with native 1920x1200 images

ServView Full HD combines an ergonomic layout in a shapely design with state-of-the-art technology. The high quality 17" LCD screen supports DVI, VGA, S-Video and composite signals. Featuring a native resolution of 1920 x 1200, it displays sharp high quality images. Unique is the feed-through, easy access able USB bus for memory sticks, and other USB peripherals at the front.

Keyboards are available in 12 language designs, keyboard and mouse as USB HID or PS/2 interface. An adjustable cantilever beam ensures proper cable ducting. For fast installation, telescope rails from 600 to 900 mm depth are already pre-mounted.

Tender rounded edges and a console area without screws complete the premium effect. It's a pity to hide this KVM Tray in a rack. Use it for representative purposes and highlight your tomorrow's alignment.

Item	Code	Price
ServView Full HD		
USB	KVT1920-BE-U	Call
PS/2	KVT1920-BE	Call

ServView V Widescreen
Wide screen (1920x1200) 17" drawer with integrated 8 Port DVI/USB switch.

The ServView V Widescreen offers server management in a space-saving, streamlined package. The tray includes an US-keyboard, touch pad, a 17" TFT widescreen LCD panel, and an integrated 8-port DVI USB KVM switching module housed in an industry-standard 19" 1U rack drawer, saving you valuable cabinet space. Front panel KVM switch selection buttons enable switching between servers with only the LCD panel open.

The dual-rail design enables the keyboard and LCD display to slide in and out of the rack independently. Store the keyboard out of the way while keeping the display open so you can easily monitor your servers. Check system status even with the cabinet door closed.

ServView V increases productivity, saves space, and provides direct control of servers.

Item	Code	Price
ServView V Widescreen + 8-port Switch		
DVI/USB	KVT517A-8DV-WIDE	Call

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